
Henry B. Stoff
Journey with Ben. Dick
Oak Harbor Wash.

Wife H.W. Christ

Crabbe best after
Dredging

little
[regular]
#1 white
disc's

blk Bry
patches
#2

#3 yellow
[orange bry]

#4 thicker
wht encrust.

o o o
o o
#5 regular
usual white
discs measured
like #1 above.

Mr. Siple's Am. Range
Cordova, Alaska crabs at

Crabs in Prince William
Sound in July

Bay of Waterfalls

From Shetter
Vic
write him or
letter

Kanaga (or Tanaga?) Id.

western Aleutians

Mile C. S. In Bar.

2 male from
Shinn Bay
60 fms

Dec. 1 - 1940

~~Fat~~ Kalarock
early spring tall
large mass ~~summer~~
me.

- ① Continue to measure and tag/set out test blocks
- ~~②~~
- ③ Time moulting + increase of size noted.
- ④ Any enemies of crabs in soft condition
- ⑤ Duration of moult + time it takes for crabs to get hard
- ⑥ ~~Additional~~ ~~smaller~~ test blocks
- ⑦ Continue studies at Alitab

If canner is not later
any experiments could be
carried out on shore at
Cannery at Sags Bay
where Nelson got his best haul.

Steam cocher etc available
could run in just ahead
of day in the drift at
Olga Bay; (if experiments are
to be carried forward).

① Continue ^{field work} observations on King
crabs at Alaska, movements
abundance, ^{and biology} ^{eggs} ^{rate of development} ^{in eggs} ^{included}
life history, tagging
measuring crabs. * (perhaps up
high in boat
could be
stationed by)

② Develop better mode of tagging
if present one should prove un-
satisfactory

③ Study of baits for traps.
(wood blocks soaked in fish oil
a reservoir with capillary tube
releasing droplets of oil??)

④ ? * Technological observation
might be conducted at
aluminum cannery?

⑤ Out and observe test block.
glass or iron plate, a capillary
tube

⑥ Good Baits

Continue measurement of crabs
as many as practicable always

Continue Tagging, modify it if
can be done better, a permanent
tag would be well worth while.

Continue field party at Alitok
same or new personnel; close
watch should be kept a month
stages, durations, effects of
moulting & not moulting;

Tag crabs about to moult & see
how far progress through moult
with tag affixed.

hatch eggs; hatch out some
explore possibilities of hatching

Put out
Test blocks to get rate of growth
of organisms infesting crabs

Keep up good habits studying
Echinoderms with hist. blocks of
wood soaked (in impregnation) with
fish oil, Cam essence, in
bottle that will diffuse it right
in, a other wise; Containing the
water pressure will squeeze it out.

Drafting net:

- ① should pay 80-90 for slightly used net, & pay out for use for one used wh.
- ② would have been in pretty pickle if Drafter had not bought his net.

Ask Helen for data
& log book of ~~for~~ 1838
amuse

Look through all
these sheets

Traction net

Asks for him Log books
Cannot charter be cancelled as
basis of gross misrepresentation.

regards capacity of canny cable
w/ knowledge of crabs
no knowledge of canny
misleading statements as to abundance
crabs

loads of cable
in depth of 150 fathoms
depth 200 fathoms

fuel consumption way off; had to
shut off lights in last half of trip
no lights of any sort when at anchor
wrong view of you & at least
more

Tomas Dobson

Call Belle
Stevens

~~Wxy over. One haul was made~~
~~in about 95 fathoms off Castle~~
~~Rock.~~

White Bull about Protect
bait by wire

July board at Zimmerman's

End Pat
Side Table 1941
Calendar 1941
Cheese Cloth
Fish Hooks

Pat mining / Put up
Sept. 28 / step or rack
a postage

Portball at
Polgoi
Oct. 31 done
dinner & washed
getting in
on Back.

Bolt for if not used would
be available for next year.

Banabz
red dried red
red completion
at Petro.

Superstition Friday the 13th

Friday the 13th today.

Things to report Kellogg - Mammals
Schultz - Fish
Foshag - Minerals

like send
some get to work.

Herring, U.S. Marshall at Kordials
reports, & has pictures of hairy
mammal with beak like bird & tongue
that fits into a socket. (Beaked whale?)
Also has photo of odd fish.

If we want sea-otter skeleton, write
Alex Stokes, things like that frequently
get washed up on beach.

Brittel colored pictures of minerals
OCT. 26. wanted, & where obtainable. ^{Technical info. wanted, put on mail list}
What is green matrix of large spec.
Lapidary book & methods; put on mineral mail list.
① Large green, ② red ashy & quartz
found in Unga not from mine
first two ① + ② picked up on beach next to
cannery.

Brittel is going to take vacation with
around Helum lagoon & ask if
we would care for walrus skeleton?
Write him about it.
{ Carl = bones on museum. 5 men can't lift.
also walrus skeleton.

Commercial fish:

Oct. 11

Good day
Paul flounder

Right now East supplies West with

filleted fish.

Why not develop
+ fish grounds

Alaska flounder. Best. what are
you for Seattle as the Alaska catches

Person

Vessels

"Jandelugo"

Built in 1898, former right-hand
113 ft. ~~long~~ ^{ender}, converted for cannery purposes
in 1938. 170 h.p.
29 ft. beam.

"Dorothy" Built in 1914. ^{converted} Oiler trawler, formerly
92.8 ft. long. ~~beam~~ halibut schooner.
draft 10.1 feet.

Lava Kauls

$\frac{1}{3}$ Cup Shortening
4. tea Spoon Baking powder
 $\frac{1}{2}$ " " Salt
 $\frac{1}{4}$ " " Sugar
1 " " Vanilla
1 $\frac{1}{2}$ Cup Sugar
5 Eggs Well Beaten
1 $\frac{1}{4}$ Cup Milk
1 $\frac{1}{2}$ qt. Flour
1 $\frac{1}{2}$ Cup Fresh potatoes

4. Dry Lava Kauls

Since 1930 . . .

. . . We of Clark's "Better" Restaurants have constantly endeavored to give you the very best in food at lowest possible prices. Every dollar spent in our restaurants helps Seattle. One hundred members of the culinary union are employed, receiving union wages and working five days a week . . . over thirty cents out of each dollar we receive is paid to labor.

Our story is briefly told . . . the best in service to Seattle and to you is our aim.

W. T. Clark



... Still Modernizing

Not satisfied with bringing you the New TOP-NOTCH, Clark's "Better" Restaurants will soon remodel the popular Salad Bowl, at 1325 Fifth Avenue, making it ultra-modern in design, and fully up to the latest Clark standards.

CLARK'S *New* TOP-NOTCH



*Serving
Seattle . . .*

CLARK'S

"Better" Restaurants

. . . Each a separate business, incorporated and operated as a single unit, but with the advantage of affiliation with the other Clark restaurants as to management.

4 Famous Restaurants:

CLARK'S New TOP-NOTCH, Inc.

E. 45TH AND 12TH N. E.

In the heart of the busy University District—Where "U" meets YOU . . . Ultra-Modern—Seattle's newest and finest restaurant . . . The "top-notch" in food service at all hours of the day and night . . . Ample parking space for your car.

CLARK'S Round-the-Clock, Inc.

OLIVE WAY AT TERRY

The ultra-modern companion of the Top-Notch . . . Has established itself as one of Seattle's most popular restaurants, with national recognition . . . The ski room has become famous . . . Convenient for you whenever in downtown Seattle . . . Open "round-the-clock."

CLARK'S Coffee Tavern, Inc.

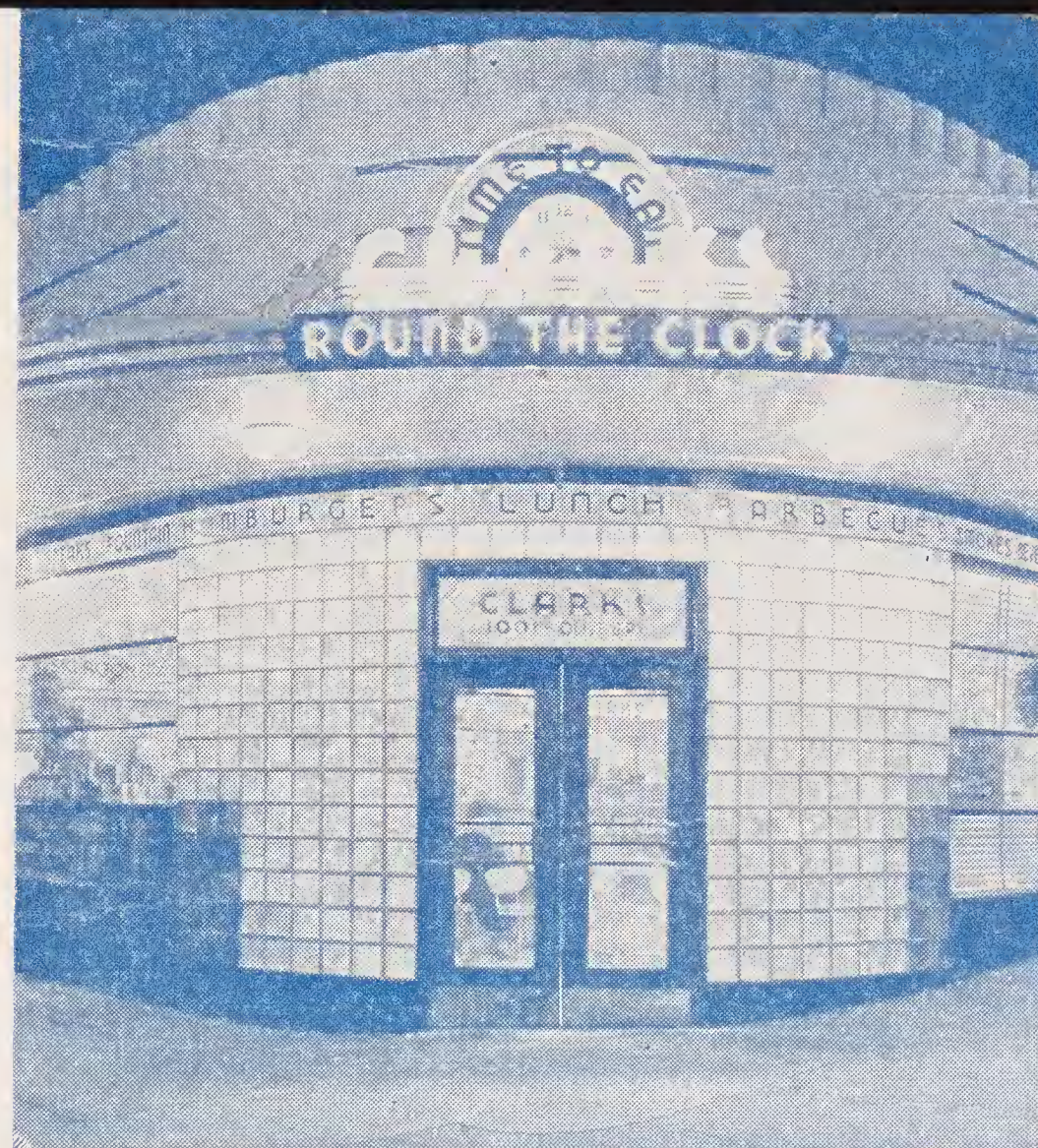
MEDICAL & DENTAL BUILDING

In the downtown shopping district, handy for business and professional people as well . . . Located next to Frederick & Nelson . . . Famous for complete 50c dinners . . . Boasts an unusual, ultra-modern soda grill.

CLARK'S Salad Bowl, Inc.

1325 FIFTH AVENUE

In the Metropolitan area, convenient for theatre-goers . . . Nationally known for excellent salads.



*. . . each
featuring*

the well known Clark quality food, with quick service, in spick and span surroundings . . . offering a variety of complete breakfasts, lunches and dinners, at reasonable prices . . . serving such specialties as the popular, U. S. trade-marked "Chickenburger" . . . famous Shore Dinners, as well.

*When the Times whistle blows,
. . . Come to CLARK'S*

At the request of . . . Harrison (title). . . I am forwarding to you a statement in duplicate regarding my knowledge of an eye injury to Mr. Ed Verburg who was cook on the vessel Tondeley while . . .

In addition to my duties as . . . technologist. . . I administered first aid wherever needed. . . . It is my belief that Mr. Verburg was injured in line of duty and that the explosion of the stove is the direct cause. ~~xxxx~~ All the men were required to have physical examinations before the trip. I recall from Mr. Verburg's medical form that there was no previous eye injury.

The injury came to my attention immediately after the explosion. I washed the eye with dilute boric acid and applied burn ointment to the face. Treatment of the eye continued for about a week, when the burning sensation seemed to cease. Captain Nelson was asked to move the vessel into port where a doctor could be reached after Mr. Verburg complained that he was losing the sight of his eye. He refused to do so immediately. On the insistence of Dr. Waldo L. Schmitt (title). . . the Captain, on November 11, 1940, ~~xxxxxxxxxxxx~~ gave permission for Mr. Verburg to go on the Dorothy to Kodiak. Dr. Schmitt and I accompanied him. There is no Public Health Service doctor in Kodiak, so Mr. Verburg was taken to a private physician. He treated the eye with ointment and suggested that Mr. Verburg go to an eye specialist immediately upon his return to Seattle. Treatments began in Seattle December 12, 1940.

Dr. Jones Kodiak.
Nov. 11 went to Kodiak.
Dec. 12 went to marine
hospital in Seattle
Sept. 12 Srenoon

It is my belief that Mr. Verburg was injured in line of duty by faulty equipment on board the Tondeleyo, and that treatment was delayed by negligence on the part of the master of the vessel.

A. E. GREEN

ONLY FURRIER IN THE UNITED STATES
DEVOTING HIS ENTIRE TIME TO
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NO SKINS OR SCARFS FOR SALE JUST LABOR

Specializing in

MAKING SCARFS

*Have made scarfs for SILVER FOX BREEDERS in Every
State Silver Foxes are Bred—Also Alaska*

HAVE MADE SCARFS FOR THE BEST
MINK BREEDERS

ALASKA MINKERY, Petersburg, Alask

R. S. BALLARD, Branchport, N. Y.

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FURRIER FOR BREEDERS & TAXIDERMISTS

1033 — 81st Street

Brooklyn, N. Y.

RECOMMENDATION

Am pleased to advise that the Silver Fox Scarfs you have made up for me were handled in a very workman-like manner. Have never before seen any scarfs with such natural heads as those made by your company.

EDWIN BREITWIESER, Castle Rock, Col.

Your workmanship is fine, will try and get my fellow ranchers to send their work to you. Some have seen and approved of your work, your new idea of ear supports is splendid.

J. E. DONAT, Wallingford, Conn.

Received the Fox Scarfs, well pleased with the work, have not seen better, sending eight Minks to make up.

ENGEMAN PETERSON, Vergas, Minn.

You have made up a number of pelts for us and it seems seems that each time they are finer and better looking in every way.

WATCHUNG FOX RANCH, Morristown, N. J.

In regards the Minks you made up for me they were first class in every respect, if I have any more made up you surely get the job.

ALASKA MINKERIES, Petersburg, Alaska.

Am very much pleased with your tanning and making up of Silver Fox Pelts.

My customers highly recommend your work.

JOHN LONG, West Stockholm, N. Y.

We find that your work on the making of Silver and Red Fox chokers far superior to any we have had done before, and know that we do not need to hesitate to send you a valuable fur as your work is first class in every respect.

R. W. Hutchinson, White River, N. Dak.

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1033 — 81st Street

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SELLING RAW PELTS

TO FRIENDS, VISITORS AND NEIGHBORS.

I will suggest that if you deliver the raw pelt to them, give them my name and address, to have it made up, or you can ship direct to me to ship to them when finished. Will ship C. O. D. for cost of making, if necessary.

The reason is, I have received so many scarfs back from breeders to make over that their customers have had made up elsewhere and not satisfied with, moreso the past season.

This will save the extra expense of remaking and dissatisfaction.

WORN SILVER FOX SCARFS

With worn out Noses, Underjaws, Ears, Paws, Belly or Tails on aged foxes, can be replaced. Worn side repaired without making shorter or narrower, giving the scarf a healthy rejuvenated appearance.

RUBBED OR TORN PELTS

If you have any pelts that are slightly torn or rubbed, I can make a perfect scarf from it, and only you will know it was made from an imperfect skin, thereby getting the full value of a perfect pelt instead of taking a heavy loss if sent to the sales.

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F R E E !

A large display poster of the enclosed sketch of scarfs size 17 x 22 will be a help to take orders for scarfs. When shown the three different styles it can be worn, will make it very easy to make a sale.

As each scarf is finished complete, you can detach and sell as 2 separate scarfs.

One of these display posters will be mailed you without cost on receipt of first pelt sent in by you to be made up.

It will be mailed not folded.

TO THE MEMBERS OF :

American National Fox Breeders Ass'n.

If at any time you sell a pelt to a neighbor or visitor, or want a Scarf made up as a gift to a member of your family, I will give you the same service, labor and quality of trimmings as a breeder receives who has a NUMBER made at one time.

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THE NEWS

TWO SKIN SCARFS

All 2 Skin Scarfs made to be worn in three styles, and finished so as to be worn or sold as a single scarf, no sewing. This is a benefit to help you make a sale.

No. 1. Long Effect in Front

Ring closed at head only.

Ring at rump lower inside paws, close to hold scarf together in front.

No. 2. Cape Effect

Rings closed at head and front paws.

Rings at rump lower inside paws can close to hold scarf together in front.

Rings at head can be left open to give a wider effect in back.

No. 3. Tails in Back

Rings closed at rump lower inside paws.

Rings in front paws open.

Rings in head can close to hold scarf together in front.

WARNING

Do not hold your hands across top of fur while wearing, will then wear very quickly.

Hold hand in ribbon on belly side.

A. E. GREEN

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Brooklyn, N. Y.

Sec. 562, P. L. & R.

A. E. GREEN

Return Postage Guaranteed

1033 - 81st STREET, BROOKLYN, N. Y.



Furrier For

TAXIDERMISTS

and

BREEDERS

Specializing in

SCARFS



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PRICE LIST

My work is custom made, I see every pelt received and every scarf shipped out, I personally make all heads and oversee the blocking of every scarf, that the narrow neck is blocked out, so that when the scarf is finished, it does not look like pieces have been cut out at neck, but the neck is almost straight with body. Each and every scarf is made to look as good as the best workmanship or better. As for trimmings only the best are used, LIGHT-WEIGHT FLEXIBLE RUBBER SKULLS, IMPORTED VEINED EYES AND HAND MADE HEAD SPRINGS AND SAFETY RING.

No pony or cat used for underjaws, but Silver, Red, Cross or Blue underjaws only.

No furrier catering to the finest retail trade use any finer trimming than I. They cannot be had.

Be prepared to make the extra profit by making up your pelts and selling made-up scarfs.

Fox breeders send for cape designs.

Mink breeders send for sketches of 10 designs.

Same attention given to one scarf as to a dozen.

<i>Silver, Blue, Cross Fox</i>	\$ 9.00
<i>Red Fox</i>	8.00
<i>Gray</i>	7.00
<i>Raccoon</i>	7.50
<i>Mink (2 skins)</i>	8.00
<i>Fitch (2 skins)</i>	7.50

All above prices include tanning and finishing the scarf complete.

A 5% discount on lots of 10 or more Scarfs made at one time.

All goods returned to you prepaid and insured.

Advise value to insure furs when returning.

All scarfs shipped within 14 days from time received.

A. E. GREEN

1033 — 81st Street

Brooklyn, N. Y.

HOW YOU CAN MAKE MORE MONEY

By selling direct to the consumer or wearer, you will make the profit of the skin dealer also the profit of the manufacturer and the retailer.

This can be yours by having your pelts made into scarfs. Can't you use the extra money.

Scarfs sold to your ranch visitors and local people will give you extra profit.

Every woman is proud to say she bought her silver fox or other fur from the man who raised them, and made with expert workmanship.

Some of the features of my work: Wide neck line, long head effect, under jaw made of fox fur.

My prices are as low as possible consistent with good work.

Rubber skulls which make a flexible head, handmade silk crochet head spring and safety ring.

TIPS

A poor tip on a silver reduce the value, poor tips can be replaced with one 3 or 4 inch at the cost of 80c. which will greatly improve the scarf.

CAPE S

The Cape has many uses. It can be worn with fur or cloth coat, and without a coat in Spring and on cool evenings in Summer.

Full silvers are best for capes.

Muff made from one pelt, half silver will make-up good as the black part is at back of muff.

Cost \$10.00 from raw pelts.

A. E. GREEN

FURRIER FOR BREEDERS & TAXIDERMISTS

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Brooklyn, N. Y.

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TO FRIENDS, VISITORS AND NEIGHBORS.

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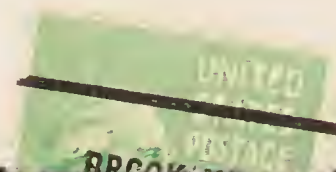
A POOR HEAD SPOILS A GOOD PELT

Sec. 562, P. L. & R.

Leslie Melvin

Perryville

Alaska



Have done work for SILVER FOX BREEDERS in every State Silvers are bred - also Alaska

ONLY FURRIER IN
THE U. S. DEVOTING
HIS ENTIRE TIME
TO BREEDERS
TAXIDERMISTS
IN SEASON

•
NO SKINS OR
SCARFS FOR SALE
JUST LABOR

A. E. GRIEN

FURRIERS FOR BREEDERS

1033 - 81st STREET

BROOKLYN, N. Y.

Telephone Shore Road 5-5380

FROM APRIL 15 to NOV. 15
WILL SPECIALIZE
IN REPLACING
AND REPAIRING
ALL WORN PARTS
IN SILVER FOX SCARFS

PRICE LIST

200	JACKET	20 inch	3	SKINS
201	"	25 "	4	"
202	"	32 "	5	"
203	COAT	36 "	6	"
204	STOLL		3	"
205	"		3	"
206	MUFF		1	"

The above can be made from all kinds of foxes. But must be from large skins for coats or jackets, otherwise will need 1 or 2 skins extra.

Full silvers are preferable as they make a better looking garment.

Stolis and muffs will be made as large as fur will allow.

Cost of making, tanning and lining \$15.00 per skin used.

Lining used will be pure silk, pure dye satin crepe.

Muffs \$10.00.

No. 201 is made by making each skin look like two. Any coat or jacket can be made this way.

No. 203 is made by making four strips from each skin. Any coat or jacket can be made this way.

When ordering let us know which style you prefer.

INSTRUCTIONS

In taking orders for coats or jackets, let us know size of coat or dress party wears, and length of sleeve, taking measure from sleeve under arm to wrist.

We then will make up a canvas model and mail to you to try on.

The fronts are to meet, and if not you are to let us know how much space apart there is, or how much they overlap. Also if sleeve length is correct. If not, how much longer or shorter is needed.

Return canvas model with instructions.

NO FUR IS USED FOR UNDERSLEEVE OR ON BODY BY ARMHOLE UNDERSLEEVE. SATIN LINING WILL BE USED. THIS IS DONE TO PREVENT THE RUBBING OF FUR BY THE MOVING ARMS.

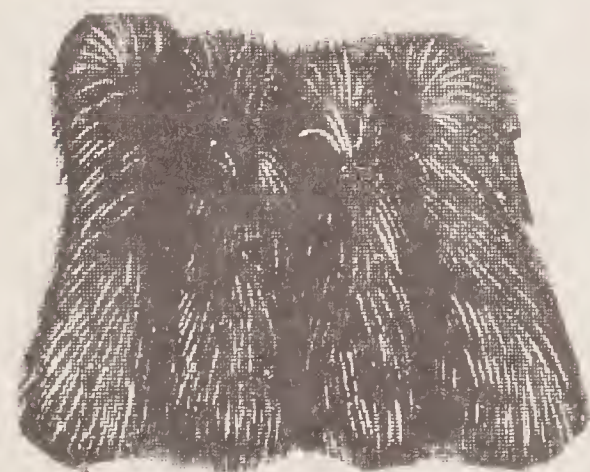
If you can use a few of these Fox sketches to send to your prospective customers we will mail same to you without cost. How many do you wish?

With each garment made we will send a printed slip on the care of Silver Fox garments to give to each of your customers.

Red Fox - \$8.00 per skin (scarf)



204—3 SKINS



206—1 SKIN



203—6 SKINS



205—3 SKINS



201—4 SKINS



200—3 SKINS

SILVER FOXES
WORN
OR
-RUBBED-
REPAIRED
AND
RESILVERED
SCARFS
CAPES
JACKETS
COATS
TRIMMINGS
CLOTH COATS

A. E. GREEN

1033 — 81st STREET

BROOKLYN, N. Y.

BREEDERS & TAXIDERMISTS

ALASKA CRAB INVESTIGATION

Mr. Wallace, who returned to the Seattle laboratory in June, following termination of the charter on the vessel "Champion," continued his work of converting the crab measurements to metric units and made various tabulations of the data at hand, giving attention to the size composition of the catches in the various areas fished according to types of gear. Tabulations were begun, also, on the sex distribution in different areas and at different times and relative to the condition of the catches with respect to molting.

SEATTLE TECHNOLOGICAL LABORATORY Period - July 16 through August 15, 1941

The vessels "Dorothy" and "Locks" continued operations in Bering Sea. The "Dorothy" worked in the vicinity of the Pribilof Islands and then made an exploratory trip from the Pribilofs to St. Matthew Island, then to St. Lawrence Island, returning to Dutch Harbor for fuel and supplies by way of Nunivak Island.

During the month the "Dorothy" covered over 1,200 miles, made approximately 42 drags, and caught 700 crabs.

During the month the vessel "Locks" carried on extensive tangle net fishing off the Aleutian Peninsula between Amak Island and Port Moller in an attempt to determine the extent of the crab population in this general area and its movement off shore. The "Locks" operations, however, were curtailed considerably on account of bad weather and her small size and she was required to spend some time in Dutch Harbor hanging floats to new tangle gear forwarded from here during the month.

The "Locks" set 46 shackles, took in 38 shackles for a little over 1,400 crabs.

Mr. Harris, formerly librarian in the Frozen Pack Laboratory, United States Department of Agriculture, was assigned to the W.P.A. project at the Seattle Technological Laboratory to reorganize our library and card index files. During the month Mr. Harris spent the greater part of the time familiarizing himself with the literature and in preparation of a master key for the library.

ALASKA CRAB INVESTIGATION

Having completed preparation for return to fishing operations for the extension period, the vessels "Dorothy" and "Locks" left Kodiak, Alaska, on June 19 and began the return trip toward Bering Sea, arriving at Dutch Harbor on July 2.

Between Kodiak and Dutch Harbor, the "Locks" made nine drags, catching a total of 816 crabs, including about 1600 in one drag in Canoe Bay. Of these approximately 300 were of large canning size. In eight shackles of tangle net set during this period, but allowed to soak only a limited time, 187 crabs were caught.

In the same period the "Dorothy" made ten drags and caught a total of 118 crabs. No tangle net was set.

In Canoe Bay the "Locks" recaptured one of the crabs tagged by Dr. Schmitt last fall, and another crab tagged by the "Dorothy" earlier during the second expedition.

The two vessels spent about a week in Dutch Harbor, taking on supplies which had been sent up on a Navy transport, and in making repairs to the vessels and gear. They were further delayed by illness which required hospitalization of the engineer of the "Dorothy". Leaving Dutch Harbor on July 8, the "Locks" proceeded to the vicinity of Amak Island, and the "Dorothy"

toward Port Heiden, where she will undertake exploratory work in a triangular area from Port Heiden to Nunivak Island to St. Lawrence Island, and then back down toward the Pribilofs. The bad weather hindered fishing operations considerably.

Between the period July 8 to July 12 the "Locks" made four drags, with negligible results. Eight shackles of tangle net were set. The "Dorothy" made four drags on July 10, catching 102 crabs. The remainder of the period she was either stormbound or running.

On July 14 one of the vessels relocated some tangle net which had been lost late in May or early in June during the previous work in Bering Sea. When the net was hauled in there were 150 crabs in it, all of them alive.

A 16 mm. motion picture camera was purchased for the expedition and, with a supply of Kodachrome film, was picked up by the vessels at Dutch Harbor. It is anticipated that during the extension period we will be able to obtain a moving picture account of the activities of the expedition.

Crabs of Nov-5-6, 1960 of Olq Bay (that were dead or died) measured + sexed for population ratio.

no	sex	width of carapace	no.	sex	width of carapace
43	♀	4.294	64	♀ ov	4.877
44	♂	4.661	65	♀	4.141
45	♂	4.327	66	♀ ov	4.781
46	♂	4.729	67	♀ ov	4.961
47	♂	5.243	68	♂	4.144
48	♂	4.544	69	♂	4.730
49	♂	5.310	70	♀ ov	4.330
50	♂	5.115	71	♂	4.760
51	♂	5.092	72	♀	5.044
52	♂	5.310	73	♂	5.309
53	♀	4.464	74	♂	5.659
54	♀	4.394	75	♂	5.226
55	♀ ov	5.084	76	♀	3.439
56	♂	5.330	77	♂	4.949
57	♀	4.695	78	♂	5.178
58	♀ ov	5.646	79	♂	5.280
59	♂	4.909	80	♂	4.411
60	♀	4.060	81	♂	4.296
61	♂	4.494			
62	♂	5.045			
63	♀	4.324			

measured 891 King Crabs.
P. platypus
Spider crabs (Chionoecetes)

Made about 109 ^{sets} drags with haul
34 working days.

Canned in 9 days

Misc collection several thousand spec.

largest crab. 16 lbs.
about 10 inches in width of body.
ave.

7 hauls Olga Bay (toled about
1000 lbs. shrimp many feet will
have coming data.

Canoe Bay

Date	Crabs Caught		Crabs Canned	Date Canned	Not Canned	Post larval (s.jw.)	Gear
Sept. 16	38		37	9/18/40	1		
19	57		50	9/21/40	7		
21	150	} 578	400	9/24/40			
22	125						
23	235						
24	68						
25						1	
26	182	} 377					
27	195						
		<u>555</u>					
		<u>401</u>	401	9/27/40			
		154					
27	190	} 529					
28	339						
		<u>683</u>					
		<u>250</u>	250	9/28/40			
		433					
30	45	45				32	
		<u>478</u>					
		<u>270</u>	270	9/30/40			
		208					
Oct. 1	199	} 360					
2	161						
		<u>568</u>					
		<u>294</u>	294	10/3/40			
		<u>274</u>			274		
3	573	<u>383</u>	383	10/4/40			
		190			190		
15	45				45	71	
	<u>2602</u>		<u>2085</u>		<u>517</u>	<u>104</u>	

Cold and Lenard Bays

Date	Crabs Caught		Crabs Canned	Date Canned	Not Canned	Post (awa) (s.jw)	Gear
Oct. 10	2					5	
11	1						
17	4					1	
	<u>7</u>				7	<u>6</u>	

Alitak

Oct. 31	1						
Nov. 2	1						
	<u>2</u>				2		

Olga Bay

Nov. 4	286						included 31 <u>P. platypus</u>
5	91						included 9 <u>P. platypus</u>
	<u>377</u>		164	11/6/40	213		

Shelikof

Nov. 15	8						
16	52						
20	5						
21	8						
	<u>73</u>				73		

~~Canoe Bay~~

Sept 16 to Oct. 15	2602		2085		517	104	= Canoe Bay
Grand Total	<u>3061</u>		<u>2249</u>		<u>812</u>	<u>110</u>	= Grand Total

Canoe Bay | King | Halibut | Cod |
Haul 20 | Crabs

Haul No	Date	Place & depth	King Crabs	Halibut			Sole and Flounders				
				spider crabs	unspined	Halibut	Cod	Sole Hippogadus	Lemon sole P. quadratus	yellowtail L. aspera	Starry flounder
20	Sept. 21	Canoe 30	0	12 ♂ 1 ge.					24		
21	do	do 35	0	12-24					12 ±		several
22	do	do 32-34 ft	150-200 mostly m/f	150-200							2 1/2 ft.
23 a	Sept. 22	dr (shoaler waters than yesterday)	113			1=12 lb					
b	dr		0								
c	dr		12								
24	Sept. 23	dr 25	11 ge ♂ (1 young = 2")	10					1 bilineatus		36
25	dr	dr	60	24 ±			1=2 ft				
26	dr	dr 14-42	4				1=2 ft				
27	dr	?	13				1=1 1/2 ft				
28	dr	25	12 (8 ovig)								24 ±
29	dr	dr 25	0				1=2 1/2 ft				
30	dr	35 ±	148 (mostly m/f)			1=2 lb					
(over)	Sept. 24		68								
33	Sept. 25	Pavlof Bay 18 fms.	1=2 in								
34	dr	dr 50 f	0	few					Atherosoma 3 ft		
35	dr	dr 50	1=1/2"				1=3 1/2 ft. 2=2 1/2 ft		net full fish haul		
36	dr	dr 27	0				4 dr small 10 inch				
37	dr	dr 25				1=12 lb 12=10 1-12 inches			1500-2000 fish		

foreman in Cane Bay

Sept. 24. (3A) 1st set. = 3 1/2 doz crabs. = 42
4 sets (3A) 2nd = 10
3rd = 10
3rd 4th = 6

Sept. 24

Apr. in Pearl Bay

2 sets (said got
8 small
crabs)

38	Sept. 26	Canoe B 20 hrs.	70 ¹⁸ rest = orig. ♀.	✓	1 = 2 1/2 ft	2000 lb fish	mostly starry flounder
39	dr	dr 25 hrs	102 (only 6 ♀)	✓			
40	do	dr 25	10		1 = 4 1/2, 1 = 10 in	2 Bus. fish mostly	P. stellatus
41	dr	Paylof 15 hrs.	○	✓	1 = 2 ft		
-	-	-	1 = 3 1/4"	-	1 3 { 5 in 10 in 12 in.	fish haul. mostly yellow tail & <u>lemon sole</u> .	
42	dr	dr 15					
		<u>Canoe B.</u>					
43	Sept. 27 a.m.	shauls	190 2 eggs				
44	Sept. 27 a.m.	3 hauls.	195 ² small 216 ² med.		2 { sea 3 ft		
	Sept. 28	Sept. 28					
46	dr	4 hauls	339 21 eggs about even. last haul a full of mud & crabs not one		1 = 2 1/2 ft.		
49	Sept. 30	Canoe B. P. M.	45 large 19 840 Sept. 30 32 baby. 1-2 in.				
51	Oct. 2.	dr 35 hrs.	63 (7 ♀) ^{only} heavy.		1 = 12 lb. 2 = 2 1/2 ft	5-6 doz Limanda. many Pandalus.	3-4
		give other nets	see 98				
		2nd 2 = net male					
		tagged crab caught here.					

52 Oct. 2 Amre 12

55 Oct. 3 seven haul 578

1=90 lbs

4=117
30 lbs.

63 g Oct. 15 Amre Bu = 7 orig

b. 2 gill nets 1 act in use.
30-35-45

64 2 18 278

52-48

1=8"

1=6 lb

1000 lb flounder
Limaonda 8-14 in
1 lamp eel
1 bucket shrimp.

65 Oct. 15 15-20 69 ^{babies} 46
babies
1-2 in.

1 Jan flounder
yellow tail
Limaonda per

66 Oct. 15 35-45 16 ⁸ 150
+ 2 = 21 ad
young

1000 lb flounder per
Limaonda

67 Oct. 15 20-25 7 = 2 wad
dry.
68 1 ♀

1000 lb flounder.
Limaonda 8-12 in

# 60(1)	Steward	Alr.	Oct. 10	1000 lb. flounder	○
60(2)	"	"	"	1 1/2 ton "	1 ♂ (9 in.)
60(3)	"	"	"	1 ton starry flounder.	2 babies. 1/2 inch.
60(4)	"	"	"	± as above.	2 babies 1/2"
61(5)	Cold Bay		"	very small haul	1 baby (1 inch)
61(6)	"	"	"	300 lb. flounder	1 ♂ (9 in.)
62(1)	"	"	Oct. 11	1000 lb. flounder	1 ♂ (8 in.)
62(2)	"	"	"	very small haul	○
62(3)	"	"	"	1500 lb. flounder	○
69	King Cove		Oct. 16.	1 1/2 ton flounder	○
70(1)	Cold Bay		Oct. 17	1 1/2 ton flounder	1 ♀ ovary
71(2)	"	"	"	very small haul 1 1/2 buckets full	1 ♂
72(3)	"	"	"	very small haul.	
^{gill net} 73(4)	"	" gill net.	"	gill net.	1 ♂ (7 in.)
^{gill net.} 74(5)	"	" gill net.	"		1 ♂ (8 in.) 1 baby (1/2")
75(1)			Oct. 18	3 tubs fish.	○
76(2)			"	1500 1600 lb. fish	○
77(3)			"	500 lb. flounder	○
78(4)			"	500 " "	○

Miss Ah. - Shumagin - Stepuvich
 Fleck haul and Castle Bay.

				Orubs
#80	Larson Bay Kagai	Oct. 21	3/4 Ton stony	0
81	Miss Ah.	Oct. 21	small haul	0
82	S.W. Big Koniugi	Oct. 22	dr	0
83	Side " "	Oct. 22	dr	0
84	Stepuvich	Oct. 24	dr	0
85	"	Oct. 24	dr	0
86	"	Oct. 24	800 lbs fish	0
87	"	Oct. 24	small haul	0
88	"	Oct. 24	2500 red muffs	0
89	Unga St.	Oct. 25	very small haul	0
90	Pohof St.	Oct. 25	small haul	0
91	off Baraboff Bay	Oct. 26	very small haul not too	0
-	Gill nets off Miss Ah.	Oct. 27	several skate (R. limboletus)	0
92	22 miles east of Castle Rock.	Oct. 28	small haul	0
93	Half of off Castle Bay	Oct. 29	very small haul not too	0
94	Castle Bay	Oct. 29	" " "	0
95	" "	Oct. 29	small haul	0

Alitka - Olga, and Sarg Bay

#96 Alitka Bay

97 " "

98 " "

99 " "

100 " "

101 " "

102 " "

103 " "

104 " "

105 " "

106 " "

107 " "

109 Olga Bay

110 " "

111 " "

112 " "

~~113~~

Oct. 31 very small haul ○

Oct. 31 small haul
2 tubs full. ○

Oct. 31 small fish haul 7 ♀

Oct. 31 very small haul ○

Oct. 31 2 tubs home algae
(very few fish) ○

Oct. 31 very small haul ○

Nov. 1 small haul ○

Nov. 1 very small haul ○

Nov. 1 small haul
net torn ○

Nov. 2 very small haul ○

Nov. 2 4 tubs full 1 ♀

Nov. 2 not much ○

Nov. 4 net mangled
37/40 is Platys 502 ♀ is.

Nov. 4 97 Platys
+ tub full shrimp 37

Nov. 4 200-300 lbs shrimp
18 Platys 7

Nov. 4 nice haul, all
Cantachitica 140 small
98 are
nice

#113	Olga Bay	Nov. 5	100 lb. ship 9 platy. 584g	4 ♂ 3 ♀ all small.
114	" "	Nov. 5	500-800 lb. ship	28 ac. 44 small
are of this Archibuteo = 186" wide				
115	" "	Nov. 5.	net loss	3 small
116	Outside Alibates	Nov. 6		○
117	" "	Nov. 6		○
118	" "	Nov. 6		○
119	" "	Nov. 6		○
121	" "	Nov. 7		○
122		Nov. 8		○
123		Nov. 8		○
124		Nov. 8		○

Shelby Sts.

#125	Nov. 14	12000	0
126	"	1 "	0
127	Nov. 15	326 "	88
128	"	78 "	0
129	"	13 "	0
130	Nov. 16	0 "	0
131	"	51 "	19
132	"	1-2	0
133	"	72	51
134	Nov. 20	1	0
135	"	1	18
136	"	0	0
137	"	0	4
138	Nov. 21	1	0
139	"	5	0
140	"	3	0
141	"	0	8

Korean crab ^{Erimacrus} ~~Chionoecetes~~.

he says it's better than
King crab.

Deep hole that — canner
fishes 81-91 fms. what place
where crabs gather/gotten year around.
he has deep hole too

Pay
to
the
beach
the
beach
the
beach

9 inch + over crabs

392
456
598
716.

= 8.7
= 8.5 (10/12)
8.5 9/8
8.5'

448 = 9.464 (14/16)

571 = 9.039 (12/9)

mt
Cure
Bay

857.

860

865

~~866~~
~~868~~

880

881

19 = 8.96

32 = 8.75

110 = 9.343

620 892

Ok. Had dinner ^{canoe by car.}
Best fishing - 40 fms.
although we got crabs in the lake.

Crabs Taken:

Alitak.

#105 Nov. 2

#106

"

1 ♀

107

"

Platy - caught

3 day
2 crabs

Olga Bay 2 buckets 109. Nov. 4

4 7

Platypus.
30 1 ♀ orig 6" ar
Cant. have
50 2 ♀ orig 6" ar

frequent boulders 50 Tub full

new net begin #110

110.

"

9 3
~~3 2 9~~

200-300 lbs

111.

"

18 7

100

over
fish
time

112.

"

238

143 small
98 ar.

500-800

200-300

100-100

50-50

850-1250

850

2(2300)

100 lbs

113 Nov. 5

9 7

500-800 lbs

114.

72

44 small
28 ar.

⊗

⊗

115.

Remain of
3 can't small

3

7 hauls = 1000 lbs a better

Tore old net
badly; better
new one

of shrimp of
commercial size
as value as a
Peletostris species

= 334 King crabs
P. canaliculatus

(but more than
half too small for
butter to can.)

= 40 P. platypus

40

334
184

184 small

150

medium size
none really
large, few above
av.

20 can of 100 can

Oct. 10th Demard Ah.

- (1) none
(2) 1 large King crab.
(3)
(4)

(1)

Cold Bay

- (5) 1 baby King crab.
(6) 1 large 9 inch ♂

(2)

Oct. 11th

Cold Bay

- (1) 1 8 inch. King crab
(2) none
(3) none.

Oct. 17th

Cold Bay

- #70 (1) large King crab.
#71 (2) 1 ♂ King crab
#72 (3) none
#73 (4) 1 7^{in.} ♂ King crab.
(74) (5) 1 8^{in.} ♂ King crab.

(2)

6.065 ^{5/12}
ca 5 lbs ^{5/2} o.k.

(4)

7.424 ^{7/11}
7-8 lbs ^{8/12}

Gill net (5)

8.560 ^{10/14}
10-11 lbs ^{11/12}

Gill net (6)

9.213
13-14 lbs

#61 crab

= 9.316 = 12/8

#703 crab

= 8.789 = 12/0

#682

= 8.792 = 13/1

#626

= 8.920 = 10/13

#487 crab

= 9.047 = 12/13

(X)

#448

= 9.464 = 14/6

Nov. 9, 1940

Crabs of Nov. 5-6 of Oleya Bay (that were dead or died measured & sexed for population ratio. (Though these crabs ~~had~~ ^{had} but is live can we might see in deck most of day & all next day till but is crate alongside Indelant)

No.	Sex	Width of carapace	No.	Sex	Width of carapace
1	♂	6.027	22	♂	5.111
2	♂	4.811	23	♂	5.178
3	♀ ^{no eggs}	4.009	24	♀	4.213
4	♀ ^{ov.}	5.530	25	♂	4.485
5	♂	5.026	26	♀	3.924
6	♂	4.778	27	♂	5.030
7	♀	4.442	28	♀ ov	4.826
8	♂	5.730	29	♂	4.511
9	ov ♀	4.694	30	♂	5.476
10	ov ♀	4.446	31	♂	5.390
11	♀	4.224	32	♂	5.060
12	♀	4.661	33	♂	5.258
13	♂	5.476	34	♀	4.778
14	ov ♀	4.959	35	♀	4.461
15	♀ ^{no eggs}	4.296	36	♀	4.292
16	♀ "	4.457	37	♂	5.396
17	♂	5.044	38	♀ ov	4.227
18	♀	5.311	39	♂	4.876
19	♂	4.842	40	♀ ov.	5.496
20	♀ ov	5.159	41	♂	5.212
21	♀ ^{no eggs}	4.194	42	♂	4.462

$$6 \frac{\text{mch}}{\text{wide}} = 4 \frac{\text{lb}}{15} \text{ oz}$$

$$5 \frac{1}{2} \text{ d} = 3 \text{ } 17$$

$$7 \frac{1}{2} = 6 \frac{1}{2}$$

$$6 \frac{1}{2} = 4 \frac{1}{10}$$

$$\overset{\text{inside}}{3} - \overset{\text{wide}}{3\frac{1}{4}} \text{ lb } \nearrow = 5 + 5\frac{1}{4} \overset{\text{wide}}{\text{side}}$$

Wt of little nabs.

by size, canned oct. 4

$$\overset{\text{inside}}{4\frac{1}{4}} \underset{\text{lb}}{\text{}} \overset{\text{wide}}{4\frac{3}{4}} \underset{\text{lb}}{\text{}} = \overset{\text{lb.}}{\text{O}} \text{ T } 5\frac{3}{4} + 6 \underset{\text{wide}}{\text{side}}$$

5
18
8
1
36
2

3
170
2133

303

pm

am

40 live
small
are

are

20 dead

→ 8 dead

add 80

383 canned

20 dead per hundred

King Crab Pack

<u>date</u>	<u>no. crabs</u>	<u>no. cases</u>	<u>free cases</u>
9/18/40	37	3	16 cases
9/21/40	50	4	—
9/24/40	400	20	36 "
9/27/40	401	21	24 "
9/28/40	250	17	45 "
9/30/40	270	20	16 "
10/3/40	294	26	28 "
10/4/40	383	24	6 "
11/6/40	164	4	6 "

total 2249

139
3

48 197 3
147

total 142 cases 33 cases

$$\frac{2249}{142} = 15.7 \text{ crabs per case}$$

[illegible]

Crabs Taken

gill nets (2 ~~shakes~~ only)
 Sept. 16 + 19. (38 + 57) (18th 37) Canoe Bay 95 (87)

Sept. 21 (150 - 200) (~~21st 50~~) (} ~~200~~
 150

22 (125) 125

23 (235 - 239) 235

24 (68) ~~24th (400)~~ 68

25 (2 babies)

26 (179 - 182) \longleftrightarrow (577) 182
 + 1 baby

27 (385) ~~567~~ (27th 401) ~~185~~ 385 (195)
 can. 190

28 (339) ~~2570~~ (28th 250) ~~339~~ 339
~~2570~~

Oct. 30 (45 + 32 babies) \longleftrightarrow (30th 270) 45
 199

Oct. 2 (63 + 98 + 12) 360 (30th 294) 161
 294

3 (573) \longleftrightarrow (42 383) 573

(1 was from gill net)

Oct. 15 (45 + 71 babies) 45

Oct. 10 (2 + 5 babies) Cold + Lenard Bays 2

11 (1) }

17 (4 + 1 baby) 4

31 (19) Olga + Aluta 1

Nov. 2 (19) }

Nov. 4 (255 + 31 platypus) } = 286 = 286
 379

Crabs Taken

1
286

Nov. 5 (82 + 9 platy) ^{1 crab = trap.} Olga ⁽¹⁶⁴⁾ 91 ~~88~~
349 379

Nov. 15 (8) Shelikof 8
16 (52) 52
20 (5) 5
21 (8) 8

not can 73

Of 377 Olga Bay crabs 164
164 were can
213 not canned

King Crabs Taken
Sept. 16 + 19 (38 + 57) 95

95

①

150 - 200 crabs

after

125

3-1-5/5

all day

(2)

235

1/2 day

1/2

92

6
 5
 4
 3
 2
 1

all day

Parth. O

(morning only)

14

179

100

(195 + 190) all day

4. (3)

385

573 cash

1/2 day

339

1600

Page 100 (over)

100

1500

Hied in Luth. Sept. 22 - 12

6) 1600 (260 250

5/1/21

3 1/2 day 3.5 / 1600 (

$$4.5 \overline{) 1300} (300$$
$$4.5 \overline{) 140.0} \begin{array}{r} 350 \\ 330 \\ \hline 10 \end{array}$$

17-18
Arabs
Case

4 $\frac{1}{4}$ ^{days} in Canoe Bay

Oct. 3. 57 B. 2

2483

$$\begin{array}{r} 270 = 500 \text{ lbs} = 20 \text{ cases} \\ 400 = 500 \end{array}$$

$$\begin{array}{r} 401 = \\ 250 = \\ 294 = \\ \hline 1615 \end{array}$$

$$\begin{array}{r} \text{cases} \\ 20 + 16 \\ \hline 20 \text{ cases} \\ 21 \text{ cases} \\ 18 \text{ " } \\ 26 \text{ " } \\ \hline 105 \end{array}$$

8-9 inches wide
Males

Wt before
10/2 8"
11/2 8 1/2"
11/6 9 1/2"
10/8 9"
11/9 9.5"

5-6 inches wide
Females

5/2 6 1/2"
5/7 6 1/2"
4/15 5"
3/12 4.5"
3/15 4.5"

Males (5)

Total Crat 54 12 oz
Total Waste 30 9 oz
Total Meat 15 0

add 54 12 oz
Total 23 lbs 4 oz

Wt of all 5
Wt of 5
22 lbs 1 oz

8/8 oz leg
stems

Wt of 5
Wt of 5
11 lbs 4 oz

4 lbs 14 oz

Females (5)

Total Crat 23 4 4 oz
Total Waste 16 2
Total Meat 6 8

Wt. leg
meat
9/8

leg meat
4 lbs 4 oz

Wt. body
meat
5/8

body
meat
2 lbs 4 oz

133-40

Nov. 16, 1940

22 female (vigorous) King crabs returned
to water, measured, wide, inches:

5.6 53

6.0 11

5.7 54

6.0 35

5.7 70

6.0 70

5.8 20

6.0 72

5.8 56

6.1 20

5.9 11

6.1 98

5.9 24

6.2 03

5.9 57

6.2 15

5.9 96

6.2 53

6.2 69

6.2 80

6.3 07

6.4 20

Sept. ²³ ~~22~~ ^{forenoon} 89 crabs caught

220
95
125

52
38
95

(125)

125

88 in tanks
1 over board

Sept. 22 Catch 12 dead ^{in tanks}
discarded on Sept. 23

After noon work 147 crabs
= Sept 23 =

Crabs

more around at night

(Cutt rays very active)

? Night haul

In 1938 listed this bay by middle August 3 Sept.
Cutt rays very active
Crabs all over bay at

Sept 26

weighed with
a short piece

which did
not shift joints

- | | |
|----|-----------------|
| 1 | 1.3 - 10.9 + |
| 2 | 1.6 |
| 3 | 1.2 |
| 4 | 1.2 + |
| 5 | 1.4 |
| 6 | 1.3 |
| 7 | 1.6 |
| 8 | 1.3 7/10 |
| 9 | shade under 1.3 |
| 10 | 1.3 |
| 11 | 1.3 g |

"Baby" Paralithes

Aug. 38 CMT got
300 cases and
off Canoe Bay

Native says come
in in hot days and
CMT's obs. at Alutats

4-5 inches wide
mostly discarded.

♂ Par. 20
J. 11 + 2 just sim.

♀ Par. 17
J. 2 = 5½ + 10

Dead. ♂ 1 = 9 inch.
J. 7

~~34 + 19 + 10~~
29
63

6-7 inches wide

♂ Par. 32
J. 10 + 15 (6 in.)
10 (7 in.)

♀ Par. 25
J. 30 + 13 (just 6)
57 + 34 (7)

~~67~~
57
47
25

196

8 inches

♂ Par. 28 +
J. 22 + 7

♀ Par. 0
J. 1 [?]

57

9 inches

♂ Par. 22
J. 9 + 1

♀ none

32

57

196

63

348

+ dead = 8
36

A16 -

125, 126

#116

Shelickoff 85

Nov. 14, 1940

Air

Temp. 36°F

Down

11.50 a.m. 1:15 p.m. down 1.20

fish

Up. 2.25 hauled back

weather overcast, light breeze,

Cable 200 fms

Course N.E.

Depth about 65 fms

Bottom ? mud apparently for short evidence

had to haul back net

single haul

Tangled over again at 1:15 got the large live scallie in first haul

Sounded at 230 = 80 fms

Hauled net (trash only not fish)

- 2 dog fish, 3 + 4 feet Squid

- 3-4 skates (sh?) there were

- before I could see them

- 1 large scallie

- several small gastropods

- few hermit dead lobsters

- few small Hyas? - 1 dentation

- " " chironomids? Rem

- 1 tan (pinkish) sponge 1/2 size

- 4-5 large star fish

- 3 large redish lobsters

- no end small ophiurans

- few mud

- net full of trash along

(Gorgonocephala) tub full?

again (what is it)

from tubes or scallie live or huskoid + one scallie live

not geller fish

- Stomatopoda stellatus
- Limanda aspera
- Pleuronectes quadricor
- Hippoglossoides
- Atheresthes
- Leptodiplosia
- Myxozoecephalus
- Pisaster
- Pycnogonidae

110 X
11
##

I

Mr Mr. II

CANOE BAY

No. males 424
No. ovig. females 278
No. non-ovig. females 10
Sex not specified 1

Males

Average weight (424 spec. weighed) 8.82427 lb. (141.18632 oz.)
Average length (424 " measured). 6.10188 inches
Average width (419 spec. measured) 7.30615 inches

Ovig. females

Average weight (267 spec. weighed) 6.12219 lbs. (97.95505 oz.)
Average length (278 spec. measured). 5.45 inches
Average width (277 spec. measured) 6.04768 inches

Non-ovig. females

Average weight (10 spec. weighed) 1.489375 lb. (23.775 oz.)
Average length (10 " measured) 3.8261 inches
Average width (10 " ") 4.1185 inches

Sex not specified (1 specimen)

Weight 10 lb. 6 oz.
Length 6.860 inches
Width. 8.481 inches

Canoe Bay Ia

no. males

424

278

no. ovig ♀s

10

no non-ovig ♀s

1

Sex not specified

OK. Canoe Bay

Ib

Total length ♂s (424 spec) 2587.198

Total width ♂s (419 spec) 3061.279

Av. length ♂s 6.10188

Av. width ♂s 7.30615

Total length of ovig ♀s (278 spec) 1515.103

Total width ovig ♀s (277 spec) 1675.121

Av. length ovig ♀s 5.45

Av. width ovig ♀s 6.04768

Total length non ovig ♀s (10 spec) 38.261

Total width " " (10 spec) 41.185

Av. length " " 3.8261

Av. width " " 4.1185

Sex?

Length

6.860

Width

8.481

Cause Bay Ic

Wt of ♂s { 3741 lbs 7 oz
(59863 oz)
no of ♂s 424

Av. wt of ♂s { 141.18632 oz
8.82427 lb.

wt of ovig ♀s { 1634 lb 10 oz
(26154 oz)
no. of ovig ♀s 278 (only 267 weighed)
Av. wt of ovig ♀s { 97.95505 oz
6.12219 lb.

Wt of non-ovig ♀s { 14 lbs - 13 ³/₄ oz
(237 ³/₄ oz)
no. of " " 10
Av. wt of " " { 23.775 oz
1.489375 lb

one spec. from Sta. 43-44 sex
not indicated weighed
10 lb 6 oz

Oct. 4th

crabs camp 3d

383 crabs
counted

93

45

138

144

198

Males 4-5 inches wide

6 inches

8 inches

9 inches

|||||

|||||

|||||

|||||

|||||

|||

||

|||

|||||

|||||

|||

|||||

|||

|||||

|||

|

|||||

^

6 in = ||||| ♀

Females

|||||

|||||

|||||

|

|||||

|||||

|||||

|||

6 = |||

|

5 1/2 ♀ ||

dead ♀ ||||| ||

dead ♂ |

♂

383
Counted

(all L⁸⁰ L⁸⁰ L⁸⁰)

mont = 8 1/2

4-5

|||||
|||||
|

6-

7

|||||
|||||

8

|||||
||

9

|

♀

|||||
|||||

1/5 m¹¹
m¹¹

OLGA BAY (Paralithodes cantschaticus)

no no. II

No. males 44
No. ovig. females 66
No. non-ovig. females 23

Males

No weights.

Av. length (44 specimens measured) 4.5281 inches
Av. width (44 " ") 5.27336 "

Ovig. females

No weights

Ave. Length (66 specimens measured) 4.58877 inches
Av. width (66 specimens ") 5.09845 "

Non-ovig. females

No weights

Av. length (23 specimens measured) 3.9369 inches
Av. width (23 " ") 4.5142 "

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III Olga Bny
erab notes

No ♂s - - - - - 44

No ov. ♀s - - - - - 66

No. non ov. ♀s - - - - - 23

Total lg ♂s (44) 199.240

Ave " " 4.5281

Total wd ♂s (44) 232.028

Ave. " " 5.27336

Total lg ov. ♀s (66) 362.859

Ave. " " 4.58877

Total wd ov. ♀s (66) 336.498

Ave. " " 5.09845

Total lg ♀s (23) 90.549

Ave. " " 3.9369

Total wd " " 103.827

Ave " " 4.5142

4, 5, 19 2
*
5 1 2 0
5 2 4 8
5 3 5 5
4 5 1 0
4 8 8 9
4 7 9 5
4 6 1 0
5 1 6 0
4 4 7 0
5 9 7 9
6 0 3 0
5 9 3 8
5 6 9 4
6 2 7 4
5 9 9 0
5 0 4 4
4 5 4 4
5 0 1 7
4 8 3 8
4 7 9 5
5 0 9 5
5 0 9 2
4 6 1 0
5 2 7 6
5 1 4 8
4 7 4 5
4 5 5 8
4 9 5 9
4 9 6 0
3 7 0 7
4 8 7 7
4 5 8 0
4 3 2 8
4 7 2 9
5 3 4 2
4 8 6 0
4 9 2 2
5 6 1 1
4 6 1 8
5 1 2 1
4 7 9 4
3 8 7 5
5 3 0 7
5 3 7 9
4 5 4 3
5 3 2 9
6 1 7 8
5 1 7 9
4 8 2 3
4 6 8 5
4 8 8 2
6 2 8 9
4 0 9 1
4 5 1 3
4 6 7 1
4 4 5 1
4 7 6 0
3 0 1 0
4 7 9 8
5 0 6 1
4 7 6 1
4 7 0 2
4 4 5 3
4 5 2 7
4 3 5 4
5 2 7 9
4 4 7 8
4 9 9 6
5 1 2 6
4 8 7 7
5 3 2 6
4 7 0 7
5 2 6 1
4 3 2 7
5 6 1 4
4 9 5 5
4 6 3 9
4 2 7 1
5 8 7 0
4 8 5 9
4 4 5 9
4 3 3 2
4 1 9 9
4 3 3 9
4 0 0 6
4 6 1 5

III

male

average 5.226 S

5	4	0	0	✓
7	7	4	3	✓
5	9	4	0	✓
6	4	1	2	✓
6	4	8	2	✓
7	6	7	6	✓
7	3	3	0	✓
7	1	9	4	✓
8	3	4	2	✓
4	2	9	4	✓
4	3	7	8	✓
4	3	6	1	✓
6	0	6	0	✓
4	5	1	1	✓
4	6	1	0	✓
4	8	4	6	✓
4	9	2	7	✓
4	6	7	7	✓
4	0	9	2	✓
4	7	9	4	✓
5	1	6	1	✓
5	0	3	0	✓
5	2	9	4	✓
5	7	7	8	✓
5	1	4	2	✓
4	6	3	0	✓
4	3	8	3	✓
5	1	7	5	✓
5	3	8	6	✓
5	3	8	4	✓
4	5	4	8	✓
4	3	9	4	✓
3	8	6	1	✓
3	7	2	6	✓
4	5	2	8	✓
4	3	7	5	✓
4	9	5	0	✓
5	1	7	9	✓
5	4	6	7	✓
5	2	0	0	✓
5	2	4	4	✓
5	0	6	0	✓
4	6	6	0	✓
4	4	1	1	✓
3	9	7	9	✓
5	4	0	0	✓

2 4 0.4 1 4 S

$$\begin{array}{r}
 46 \overline{) 240,4140} \\
 \underline{230} \\
 104 \\
 \underline{92} \\
 121 \\
 \underline{112} \\
 94 \\
 \underline{92} \\
 276 \\
 \underline{268} \\
 80 \\
 \underline{78} \\
 20 \\
 \underline{19} \\
 10 \\
 \underline{9} \\
 10
 \end{array}$$

$$\begin{array}{r}
 46 \overline{) 240,4140} \\
 \underline{230} \\
 104 \\
 \underline{92} \\
 121 \\
 \underline{112} \\
 94 \\
 \underline{92} \\
 276 \\
 \underline{268} \\
 80 \\
 \underline{78} \\
 20 \\
 \underline{19} \\
 10 \\
 \underline{9} \\
 10
 \end{array}$$

$$\begin{array}{r}
 5.226 \\
 \underline{46} \\
 31556 \\
 \underline{20904} \\
 9652 \\
 \underline{24039} \\
 2613 \\
 \underline{24041} \\
 22
 \end{array}$$

wt

kg

wt

♂

4.638

5.400

♀ ovig.

22.700

25.122

♀

III a

	wt	lg	wd
♂ 4		22.480	26.577
♀ ovig. 1		4.193	4.795
♀ 1		4.610	7.743

III^b

	wt	cg	wd
♂ 3		18.343	22.200
♀ orig.		4.829	5.160
♀ 1		4.061	4.470

III c

wt

kg

wd

1

6.897

8.342

orig.

5

27.196

29.915

III d.

wt

kg

wt

1

3.875

4.378

orig.

4

18.393

20.345

1

3.994

4.544

III f

wt

kg

wt

♂

4

16.824

19.542

ovig. ♀

2

8.591

9.633

♀

III ~~of~~

	wt	leg	wt
♂	1	4,212	4,846
ovig. ♀	4	18,479	20,611
♀	1	4,045	4,610

III h.

wt

kg

wt

2

8.258

9.604

orig. 9

4

16.321

18.354

IIIⁱ

wt

kg

cvd

ovic. ?

3

13,204

14,566

3

11,375

12,615

III's

wt

kg

wd

1

4.228

4.794

22.817

25.353

5

III^h.

	wt	lg	wt
♂ 2		8.811	10.191
ovig. ♀ 3		13.892	15.222
♀ 1		3.384	3.875

II

	wt	kg	wt
♂ 2		9.444	11.072
ovig. ♀ 3		15.030	16.886
♀ 1		4.878	5.379

Tim

	wt	kg	wt
8	2	8.507	9.772
orig. 9	3	13.279	14.884
9	1	4.160	4.685

III

wt

kg

wd

1

3.770

4.383

orig. 9
2

10.015

10.960

3

11.711

13.055

III⁰

wt

kg

wt

1

4.397

5.175

ovls. 9

4

17.366

19.350

1

2.823

3.010

III 8

	wt	lg	wd
♂ 2		9.409	10.770
ovig. ♀ 1		4.054	4.527
♀ 3		12.087	13.509

III⁴

	wt	leg	wd
♂			
2		7.807	8.942
ovig. ♀			
3		13.722	15.401
♀			
1		3.993	4.478

III 2.

	wt	kg	wd
♂ 2		6.767	7.587
ovis. ♀ 3		14.100	15.464
♀ 1		4.146	4.707

III 5

	wt	lg	wd
4		16.563	19.032
orig.		5.015	5.614
1			
		3.802	4.327
1			

III⁷

wt

log

wt

3

13.548

15.911

ovle.

3

11.945

13.865

III^u

wt

lg

wd

♂

3

12.401

14.131

ovig. ♀

3

13.805

15.188

♀

III

wt

leg

wth

♂

ovig. ♀
2

7.969

8.671

♀

2

7.401

8.205

III

	wt	leg	wt
--	----	-----	----

♂	2	8.061	9.379
---	---	-------	-------

orig. ♀			
---------	--	--	--

♀	1	4.079	4.615
---	---	-------	-------

III

wt

kg

wt

8

orig. 9

5,944

6,612

II

IV

SHELIKOF STRAITS

No. males 26
No. ovig. females 9
No. non-ovig. females 1
Sex not indicated 1

Males

Average weight (25 specimens weighed) 12.305 lb.
(196.88 oz.)
Average length (26 specimens measured) 7.08338 inches
Average width (26 " ") 8.5995 "

Ovig. females

Average weight (5 specimens weighed) 5.85625 lb.
(93.7 oz.)
Average length (9 specimens measured) 6.0607 inches
Average width (9 " ") 6.7144 "

Non-ovig. female (1 spec.)

Not weighed.

Length 4.728 inches
Width. 5.213 "

Sex not specified (1 spec.)

Weight 15 lbs. 5 oz.
Length 9.619 inches
Width. 9.656 "

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IV. Shelikof Sts
notes

Total length of σ s (26 spec) 184.168 \overline{X}
Av. " " " 7.0833 \overline{X}

Total width of σ s (26 spec) 223.587
Av. " " " 8.5995

Total length ov. σ s (4 spec.) 54.457
Av. " " " 6.0507

Total width ov. σ s (9 spec) 60.043
Av. " " " 6.7144

Length of non ov. σ (1 spec.) 4.728
Width " " " 5.213

Length of Spec. Rep? 9.619
Width " " 9.656

Shelikof Str.

V

no. ♂s 26

no. or. ♀s 9

no. non ovig ♀s 1

Sex? 1

~~Total wt ♂s (25 spec) 307 lb 100g
(4922 g)~~

~~av.
Total wt ♂s (25) 12.305 lb
(196.88 g)~~

~~Total wt ^{ov.} ♀s (5 spec) 29 lb 4 1/2 g
av. wt ^{ov.} ♀s (5 spec.) 5.85625 lb
(93.7 g)~~

(1)
non ovig ♀ not weighed

Sex not indicated (1 spec) wt. 15 lbs, 50g.

	wt	kg	wd
--	----	----	----

6	72 - 8	42.840	52.090
---	--------	--------	--------

orig. ?

24

	wt	lg	wd
	(only 1)		
2	10-4	12.213	14.455
ovls.			

IV 6

♂

wt

lg

wt

ovig. ♀

♀

no

4,728

5,213

IVc

	wt	kg	wd
♂	77-0	43.849	52.954
6			

ovig. ♀

♀

Id

wt

kg

wt

only 4

all 6

all 6

orig. 9
6

23-12

36.541

40.198

He

wt

kg

aval

orig. ?

2

no

12.226

13.393

ITf

wt

kg

wt

5 51-6 33.068 45.022

orig. 0

Is

wt

lg

wd

♂

15-5

7.688

9.619

ovig. ♀

♀

Sep?

15-5

9.619

9.656

Th

wt

lg

wt

♂

5

66-3

36.964

45.284

ovig. ♀

5-8 1/2

5690

6.452

♀

14

wt

kg

wt

8

15

7.546

9.163

orig. 9

9

Xi

OLGA BAY (Paralithodes platypus)

No. males 31
No. ovig. females 7
No. non-ovig. females 3

Males

No weights made

Average length (31 spec. measured) 5.31145 inches
Average width (31 " ") 6.814645 "

Ovig. females

No weights.

Average length (7 spec. measured) 4.5051 inches
Average width (7 " ") 4.959 inches

Non-ovig. females

No weights

Average length (3 spec. measured) 3.448 inches
Average width (3 " ") 3.842 inches

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IV Olga Boy
P. platypus
notes

Alga Bay

IV

no. males - - - 31
 no. ovig ♀s - - - 7
 no non-ovig ♀s - - - 3

no ivights

Total length ♂s (31 spec) 164.655
 Ave. " ♂s " 5.31145
 Total width ♂s " 211.254
 Ave. " ♂s " 6.814645

Total length ov. ♀s (7 spec) 31.536
 Ave. " " " 4.5051
 Total width " " " 34.713
 Ave. " " " 4.959

Total length non-ovig ♀s (3) 10.344
 Ave. " " " 3.448
 Total width " " " 11.527
 Ave. " " " 3.842

Long 25

- 2 3 2 .0 8

- 5 2 0 .1 3

✓ 2 0 .9 0

✓ 3 1 3 .3 8

- 1 6 2 .7 0

✓ 1 2 5 .1 3

- 1 7 2 .2 3

~~A~~

1 6 4 6.5 5H

5.7 2

wt

kg

wt

♂

4

no wts

23.208

26.972

ovig. ♀

2

no wts

9.328

10.341

♀

~~IXa~~

	wt	lg	wd
6	74 wt	32.013	37.424
orig. 8			
8			

IVb

wt

log

wt

6

6

no wts

32.090

37.421

orig. ?

8

~~III~~c

wt

kg

wt

6

no wt

31.338

36.388

wt.

11/11

wt

kg

wt

4

no

17.223

19.566

orig. 9

no

4.080

4.477

9

1

no

4.032

4.710

IV⁹

wt

lg

wd

♂

3

no

16.270

18.948

ovig. ♀

2

no

8.806

9.559

♀

IIIe

Wb

Ly

Wb

♂ 2

Wb

12.513

14.535

orig.

♀

Wb

9.322

10.336

2

♀ 2

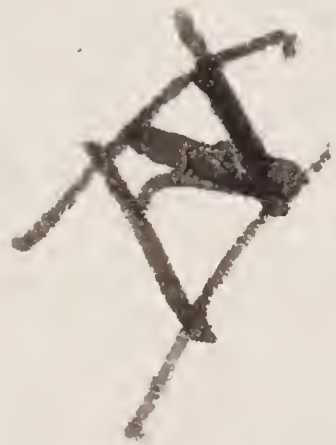
Wb.

6.312

6.817

TVF

with
of 5



✓	2	5	9	.7	2
✓	3	7	6	.2	4
✓	3	7	4	.2	1
✓	3	6	3	.8	8
✓	1	8	9	.4	8
✓	1	4	5	.3	5
✓	1	2	5	.6	6

2 1 1 2 .5 4 H

lengths
owing to

IV

men

6 3.1 2

4 0.3 2

1 0.3.4 4H

women

6 6.1 7

4 7.1 0

1 1.5.2 7H

lengths

~~IV~~

ov. ♀ S

✓ 9	3	.2	8
✓ 9	8	.0	6
✓ 8	3	.2	2
✓ 4	0	.8	0

3 1 5 .3 6 H

widths

ov. ♀ S

✓ 10	3	.4	1
✓ 9	5	.5	9
✓ 10	3	.3	6
✓ 4	4	.7	7

3 4 7 .1 3 H

Sept. 17, 1940

Ovig. ♀ of Sept. 17, 1940.

Sta. 13-40.

Dish, pleopods & eggs	= 413 gr.	14.80 oz.
Dish and pleopods	= 157 gr.	5.80 oz.
Total egg mass	<u>256 gr.</u>	<u>9.00 oz.</u>

Selected sample of dish & eggs	= 155 gr.	5.45 oz.
dish & bag	= 140 gr.	5.+ oz
	<u>15 gr.</u>	<u>.45- oz.</u>

- - - - -

Sept. 21, 1940

♀ A

No. 19-40

Weight eggs + pan and bag	392 gr.	14 oz.
Weight of pan and bag	<u>139</u>	<u>5</u>
Weight of entire egg mass	253 gr.	9 oz.

Weight eggs to be counted		
+ pan and bag	148 gr.	5.3 oz.
Weight of pan and bag	<u>139</u>	<u>5.</u>
Weight of eggs put in ROH to be counted	9 gr.	0.3 oz.

♀ B

Weight of eggs + pan & bag	427 gr.	16.00 oz.
Weight of pan and bag	<u>140</u>	<u>5.05</u>
Weight of entire egg mass	287 gr.	10.95 oz.

Weight of eggs to be counted		
(+ pan & bag)	148 gr.	5.25 oz.
Weight of pan & bag	<u>140</u>	<u>5.05</u>
Weight of eggs put in ROH to be counted	8 gr.	0.2 oz.

- - - - -

Sept. 29, 1940

No. 46-40

Canoe Bay

Crab No. 594	Weight total eggs	177.0 gr.	6.3 oz.
	Weight of eggs to be counted (in Bouin's)	9.0	0.4
Crab. No. 595	Weight total eggs	178.0 gr.	6.32 oz.
	Wt. eggs to be counted (Bouin's)	10.0	0.4
Crab. No. 596	Wt. total eggs	130.0 gr.	4.67 oz.
	Wt. eggs to be counted (Bouin's)	10.0	0.4

(Amphipods were taken from egg masses)

Sept. 30, 1940

No. 46-40

Canoe Bay

Crab No. 598	Wt. of total eggs	175 gr.	6.20 oz.
	Wt. to be counted (ROH)	7	0.18
Crab No. 599	Total wt. of eggs	155 gr.	5.50 oz.
	Wt. eggs to be counted (ROH)	10	0.32

- - - - -

Sept. 30, 1940

No. 46-40

Canoe Bay

Crab No. 600	Wt. of total eggs	206 gr.	7.35 oz.
	Wt. eggs to be counted (Bouin's)	12	0.4

Crab No. 597	Wt. of total eggs	52 gr.	1.82
	Wt. of eggs to be counted (Bouin's)	13	0.46

(This crab had comparatively few eggs and their color was a darker rust brown. Maybe she had shed some already?)

Crab No. 602	Wt. total eggs	205 gr.	7.30 oz.
	Wt. eggs to be counted (Bouin's)	8	0.19

Crab No. 603	Wt. total eggs	163 gr.	5.80 oz.
	Wt. eggs to be counted (ROH)	10	0.35

Crab No. 601	Wt. total eggs	135 gr.	4.80 oz.
	Wt. eggs to be counted (Bouin's)	12	0.40

- - - - -

9/30/40

No. 49-40

Canoe Bay (Baby crabs)

S8917	1.8 oz.	S8937	1.10 oz.
S8918	1.0 "	S8938	1.62 "
S8919	1.42 "	S8939	1.40 "
S8920	1.3 "	S8940	1.10 "
S8932	1.3 "	S8941	1.80 "
S8933	1.22 "	S8942	1.65 "
S8934	1.70 "	S8943	1.10 "
S8935	0.85 "	S8944	1.50 "
S8936	1.92 "	S8945	1.08 "

High

$$(2\frac{1}{2} + 3 \text{ hrs} =$$

~~High~~

$$7/8 - \frac{2}{3} \text{ of } 1/32$$

$$1/2 \times \frac{1}{32} + 2/3 \text{ of } 1/32$$

$$2 \frac{1}{4} \text{ to}$$

$$2.53$$

$$1.85$$

$$1.55$$

$$1 - 4 \times 5 = 20$$

8.5

4.85 mm.

4.680

3.915

6.386

Do not include
these 2 crabs

in total

II

II 716, 717 718 719.

Qms mdc

♂ 6.897 8.560

♂ 6.295 7.424

= ~~5.756~~ = ~~6.665~~ = ♀ orig

♂ 7.877 9.213

3 21.069

avr. 7.023

3 25.197

avr. 8.399

Nov. 14, 1940

125 (new style
net for
crab)

Shelikof Sts

Air temp. 36°F
Earl temp 38

{ Started to shoot net at about 11 o'clock
found it needed repairs was
brought back in board at once.

Over at 11.50 but cables were found
crossed about time net struck
bottom and it was hauled back
immediately

One large live scallop found
on foot rope, shell broken

Sounded at 12.10 but line got tangled
in haul and parted, lead recovered
Depth about 65 fms.

Nov. 14

#126

Shelikoff Sts

Over 1.15

Down 1.20

Sinking 1.25

Up, 2.25 (hauled back)

Air temp. 36°

(Carl had 38°)

Weather overcast
light breeze
mist + little rain

Cable out 200 fms

Course N.E.

Depth about 65 - about 80 fms.

Bottom ? soft mud. judging from appearance of dm

Sounded at 2.30 - about 80 fms

no bottom sample.

Hauls "Scrap, no fish"; Barber star haul

2 dog fish *Squalus suckleyi* 3+4 feet

doz skates (gen? sp? not binoculata) thrown back before I saw them.

1 large scallop *P. caurinus*

several clam shells dead

many small gastropods mostly with hermits

1 *Planorbis*.

few crust. no shrimp, all small crab and
hermits few of each, few *Chionoecetes*, + *Hyas*?

4-5 large starfish, few others diff. species

2-4 large urchins (Echinoderms different from those seen here to fore; except basket)

no end small *Phoron*, some curved stars.

net was full of entangled basket stars
about which lit full (*Astrophyton*)

1 tan finger sponge half of it saved

1 hydroid attached to shell

1 or more bits of jelly - not jelly fish.

Nov. 15-40
Over at 800
Down 8.15
Up. 10.15
Cable 150
Course S.S.W.
Depth 48 fms. - 35 fms

#127
Towing from
Kintzschke Point
Shabun Rls

Shelhoff Shs.
Air temp 34°
off Haller Bay

87 Kings
crab
largest
4" 5" over
3d legs
laterally extended

mostly 6 1/2 to 8 inches
326 Sculpin Paul

15-20 scales. mostly 3 ft wide

37.8 Chinogadus 2 1/2 - 6 w
mostly 5-6 ds

2-3 lemon sole about 10 in
1 hithyoidae 12 inch

3 large starfish large armed flabby species
as in 128

jelly fish large stuffed

many sea pens; Pennatulids

1 Cucumaria

Pennatulids

few large brown algae
red & brown

Pennatulids
aculeatus

10.55

$$12 \div 30$$

On the 150

Defth 35-50

128 stay

21055

20. 12. 30

Chla 150

course S. S. F.

~~Cloudy ft.
rain
127 815
Incl. 1015
SS str
course
Bar
29:00~~

stk. from board, only a few grains sand in
gravel; at end pc. of time
= gravel

1. Lungfish
Crab

4⁵ S. bilineata 13 m.

about 1 day
with young.

Rhinoculatus ✓-4
3 feet
✓ + 1/2 of 1/2 one

Prints strater (7
the low ✓
shred dozen
half

R. some red to
brown above
each
band

(1 day) 12 large yellow shags 12 inch
large aged stem E. vasterias
1 large pecan body 18" dia
3-4 solid yellow + red
60' more chin vessels 8d.

✓ halber (2 ft)
1 red stripe along yellow
lots of basket ears till
— bring a few more red. rise full

- bicolor life most med. size
 { 20-30 shades, largest
 2 ft across, smaller about 1/4
 inch.
 few greenish white, unchris
 perhaps a dozen

78 Scallops, size as before
3⁴ lb. ¹/₂ mussels dry or wet
dry each
masses of ~~gray~~ ^{Hydrants} ~~some~~ ^{raised}
(No. 100) ¹/₂ lb. ¹/₂ mussels dry or wet
dry each
few large leaved algae, red & ^{yellow} ~~green~~

Nov. 14, 1940

125

Shelkof Sts

Over at 11.50 am net tangled was
got 1 large brk scallop hauled in again
on 3rd rope

Air Temp. 36°F

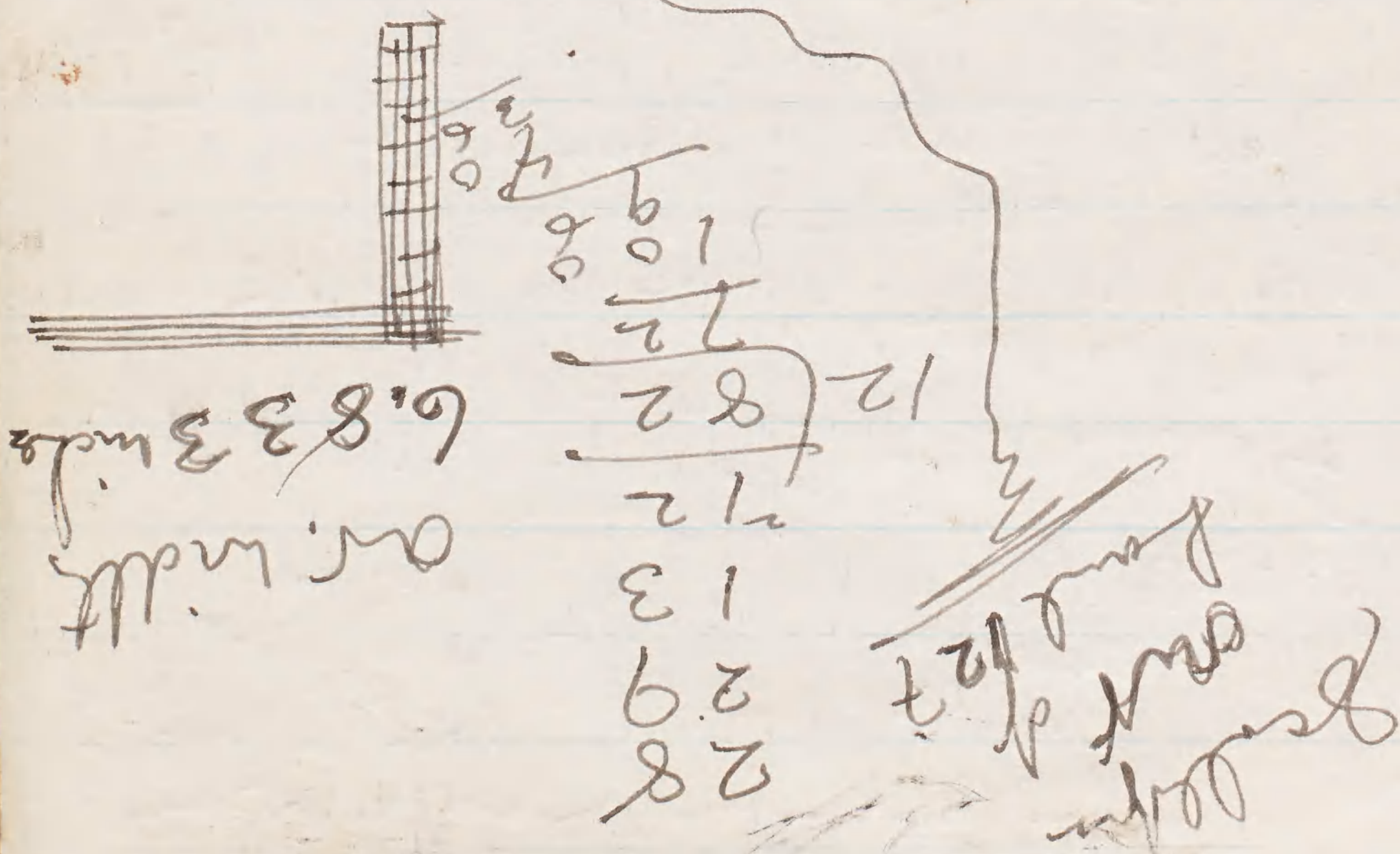
Over/at 1.15 p.m.

Down at 1/20

Fishing at 125

Up. / 2.25 p.m.

Lab



Some basket stars & slugs
in most every haul

Nov. 15/40.

129

Sizes of
2 scallops 4 = 7 in wide
etamine 4 = 7 1/4 in
2 = 6 1/2 in.

Thurs. 1.15 pm
Weds. 3.00 pm.

Ground
Kinkab Bay

Cable 150
Depth 48

somehow
all sticky mud

2 = 6
12 all told
from haul
#129 = 40

Net tore at wing
& took rest of
daylight so
this was last
haul of day

3 Lulbur (35 lb 25 lb, as 16 lb)
for spine crab

1 a 2 Metridium
1 a 2 Plumpy Penicillaria
3 long brachidonta

13 scallops
Hydroids
sponges
herm
2 small Penicillaria
1 small chiton
fairly shells
2-3 Cuvieriana
some red &
brown large
each

dozen of large stars
2-2 dozen red & orange slugs
1 fine strong 1 foot x 1 foot
high wide
2-3 tiny starfish in (wood) barrel

2-3 lemon crab 17 inch
4-5 Calappa 1 foot ±
3 1/2 starry flounder 17 inch & larger
Hippoglossoides

few mussels
several Pycnonotus

2 brown eyed
shark snail
1 foot wide
±

doz orange slugs
hydroids

~~129~~

154

Nov. 15-1940

153.30

N.



Shakun Rks

C. Chigiale

58° 30'

Halla Bay

C. Nakshole



128

129



Down
10:20
Up 11:25

134-40
Nov. 20, 1940

Bright sunny
day; fresh h.w.
breeze;
Baro.

Depth 55 fms - 40 fms
mud.
175 fms cable

Temp at 8.20
= 35° F

2 large *Chironomidae* + 2
young about 2 in. wide
6-8 dog fish 2-4 ft ±

5-6 grey cod 22 in long
about 18 in long

2 annular loach 17 in + 4 or 5 young
5-8 1/2 inches

dog cyanea

1 pollack 18 in (white)
1 small *liluncula* (theagra)

2 small horn eyed skate
14 in wide

2 dog grey cod. young 10 in to 16 in

20 ± *Phrosarus*

1 orange nudibranch

8-10 *Hippolamidae* 5 1/2 - 8 in

2-3 turbot stars

1 S. d. w.

2 dog lim cod 6-10 in ±

Some scraps of red & brown algae

6 *Pecten jordanii*?

1 large 7 in
Pecten caninus

1 *Argo buccinum*
2 aned.

1 small
1 *hermes*

2 *Myasina*

2 small *Myasina*

1 small
Spirontocaris

135

Nov. 20, 1940

Bright sun.

36° ±

Fresh. N.W. breeze

Down 11.45?

Up 1.10

40 fms. mud; 48 at end of little soft mud on
sampler which dried but had
little in it

125 cattle

1 black cod
in this
hand
#134

1 in
about
with about
10 1/2 - 11 in long

Long Hydroids
1 yellowish
+ 1 other
small

1 small
greenish

1 small
greenish

1 small
greenish

1 small
greenish

1 small
greenish

1 small
greenish

1 small
greenish

1 small
greenish

- 1 ♂ King crab about 2 ft. ± and
- 2 large cod, several half size
- 3 large anemones with 1 1/2 dozen
- 1 (13) + 10 1/2 inch + 10 inch
much marked etc
- perhaps dozen 5 to 7 inches

- 2 dozen long eel.
- 2 shrimps are large about Chiono
- 2 prawns buty chiono
- 2 lobsters about 10 inches

- 12-18 Strongylocentrotus
- half dozen Ptilosarcus
- few small larval fish

- 4-5 shrimp, 2 species Pandanus
- 1-7 inch sculpin with hydroids
- + barnacles

- 2 extended skate cases
- red + brown algae
- few strands of eel grass

~~Hyas~~

3-4 Cyprina

3-4 Cyprina

#136-40

Nov. 20-40

Down 1.10

Up. 215

48 fms - 25 fms at end

Sampler must have landed on side
few mud prisms in it

9 ~~to 8~~ lemon sole 11-15 inch

50 good fat *Pholisarcus*

6-7 baby halibut 10-14 inch ^{up to 21 inch}

but full large (*Ogamaea*)

1 *Evasteria* 2 ft over all

1 flat star

dozen or so *Pandalus* (2 spec)

dozen tom cod. 5-10 inches

B *Arthropoda* 6-~~10~~ inch

dozen arrow looths + 3-12 inch

1 flat cod 10 inches

1 ? *L. bilineata*? 7 inches long

Down 2:

Wh.

Cable

Depth 25 fms.

#137-40

Nov. 20-1940

sun
fresh water
beige

1 Baby bird 8 1/2 in

1/2 tub full Ganes

20 ft basket slant

48 King hat

1 Argobucan

138-40

Down 8.35

Up 11.45

Nov. 21, 1940

Bright

clear

calm

23° at 6.45 a.m.

Depth 40 fms - 28

Temp at 11.35
at 26 fms

31 at 11.45

Bottom grey mud, a lead

7.8 (avg 7.5)

at read

slightly at end in sampler

surf 7.5

avg 7.3

bilineata 11 + 14

2 - 40 inch wide R. binoculata

1 - 2 1/2 foot dog fish

9 grey cod = 11 - 18 inches

3 Trichodon

1 black cod 9 1/2

1 Cucumaria

2-3 Eristenias mud hocker

6-8 large Gyanea.

1 large Chironocetes 6 inch wide

6-8 Pandanus

dog and small Chironocetes

1 Myoxocephalus

1 Argobuccinum

6 Anas both = 7 inch

Many Pterodroma

1 Hermit

1 sculpin

1 Aphrodite

few small
mudhoppers
the common
one ✓

shards of
eel
in each haul in
this area

28-40 fms.
139-40

Down 1150

Nov 21-1940

Up 1250

2 cod in stomach { 1 = ca. 14-16 in.
1 = ca. 12 in. dr.

Clear high
nearby calm
temp 30°
at 12.45

1 large 70-75 lb
mully over
range
50 call
Halter

market sole
1/2 tub full all lobes
1 anor tooth 8"

1 dioculata 2'8"; 3'4"; 1'8"

2 dog 3 ft.; 2 1/2

1 Chryso

Argo buca 10-12 of these

dog small dioculata

dog Otilosaurus

dog mucus 3 drab.

dog small Cyanea

~~Otil~~

hydrant Bougain

1 spring sun star

1/2 dog market sole (10-6 inch)

1/2 dog com cod small

1/2 dog Pandanus (marg broken)

1 Trichodon

a few basket stars

a few
black
mussels
in this & along
perman band

Hya

1 Regina

leeder loose
on deck in
every haul

Aphrodite
in this &
in 138
one each

1 Nectosaurus
small canch
algae
1 spin

40-28 fms.

Warm ~~134~~
sunny calm
day.

red cord

Larkin

Hydrate in
at

1 Beda ~~met~~ ~~Swet~~ ?

2 aphrodisiac

found my
dear
cousin

¹/₃ Dates (2-3 1/2) (1-2 1/2)

✓ 2-3 hr dog fix

✓ 1 Salz Kalter

1/2 tub Gynea

✓ 1 whiting 20 inch

5 studen + 3 halige

2 - 11 inch black cord

✓ 2 - 13 sind denn 20

$\frac{200}{200} \div 100 = 1$ Long and up to 1 ft long.

~~Eastern~~

2 flat star

2-3 days Old & covered

✓ 3 scallops 2 7 inch / 4 inch

✓2 L. bilineata (1-12")

1 Cucumaria

4/ Entrance

red dish, granular but more
probably stone Enstone

141-40

Nov. 21-1940

Down $3\frac{55}{5}\frac{35}{35}$

49 fms - 19 fms

Boat shells sand & gravel

Clear
Calm.

Normal
haul
of day
about
a bit
full

but full jelly fish

Chitonian

Spider Cancers & small

low coral

Shells

8 King crabs to be measured
there are 2 of them

Haul	Date	Place fished	King	Spotted Puffer	Hali but	Cod	Sole + flounder	starry
60(1)	Oct. 10	Leonard Hbr. 65-40	○	1/2 tub small.		12 = { 20-30 in 6-7 lbs.	1000 lbs mostly Limanda	
60(2)	dr	dr. 40-25	1 ♂ 9 in.	few	2 = 14 in		1 1/2 Ton flounders.	starry 12-13 in 4-7 lbs.
60(3)	dr	25	2 baby 1/2 inch.	2-3 doz. 1/2 tub.		24 = 3-5 lbs		mostly starry
60(4)	dr	20-25	2 baby 1/2"	as before.			1 Ton starry flounders.	
61(5)	Oct. 10	Cold B 12 hrs.	1 = 1"				dry 100 flounder + some other fish.	
61(6)	"	34-20	1 large 9 inch.		4-5 = 6 to 10 in		300 lbs. mostly Limanda.	
62(1)	Oct. 11	Cold B 28	1 large = 8 inch				1000 lbs mostly Limanda	
62(2)	dr	20-15			14 = 4-10 in		small haul, several dry each Limanda + a few each of other common species	
62(3)	dr.	15-26	○	2	1 = 40 lb 1 = 12 lb. 4 = 2 lb.		1500 lbs. mostly Limanda	
69	Oct. 16	King Cove. 15-35	○	5	6 = 8- 33 in		1 1/2 Ton flounder mostly Limanda	
70(1)	Oct. 17	Cold B. 15-30	1 ♀ orig		5 = { 8- 14 in } 6-11 12 = lbs		1 1/2 Ton flounder 1/2 = Limanda 8-12 in 1/2 = Plat. stellatus 10-15 in = 3-6 lbs.	
71(2)	Oct. 17	25-15	1 ♂		1 = 13 in		1 1/2 bushels full of few flounder	
72(3)	Oct. 17	15-50	○				very small as above.	

Reddish slabs + large reddish
urchins = #126-40, Nov. 14, 1940
(129) 1 large ~~Exasterias~~ saved. ~~127 or 128~~

#128 pinkish skate (one or two saved)

#128 = 1 red flat slab

#129 rock with rock crystal + worm tubes

128 orange + red Scleraster smooth

129 Teredo bored wood broken up. = 129
with worms + tiny Spirontocaris

~~128 = 1 ss. gravel~~

~~Vessels~~

~~G. W. Harrison~~

Down 11:50 *

125-40

Air temp. 36°F

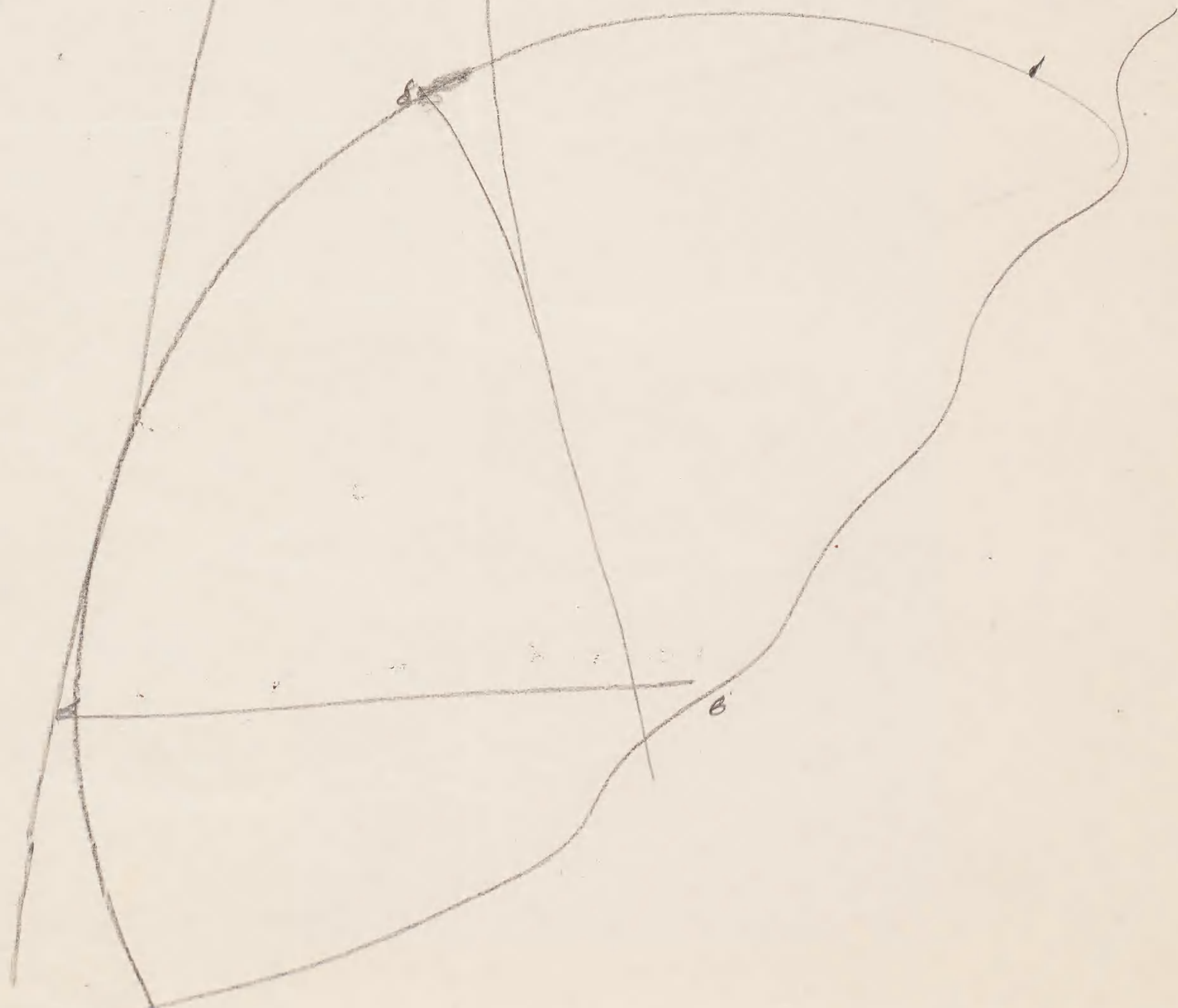
Nov. 14, 1940

Depth about 65 fms.

(sounded at 12.10 p.m. but line got tangled in incoming trawl; line cut but end with lead saved)

* Started to put over net at
* ~~Net was put over at 11:00~~ but soon
it was noticed that cables were crossed

*



Hippoglossoides classodon	16 6-15 inches 10-20	4 lbs.
Platichthys stellatus.	6-14 8-16 20 inches 22 14-16 26 inch.	1-3 1/2 lbs. 2 1/2 - 3 1/2 lbs. 1 - 2 1/2 lbs. 1 1/2 - 2 1/2 lbs. 4 lbs 4-5 lbs. 5-6 lbs. 7 1/2 lbs.
Pleuronectes quadrituberculatus.	12-16 inches 20 inch.	3 1/2 lbs. 6 lbs.

Halibut.

12 inches	3 1/2 lbs.
10 inches	3 lbs.
12.	2 1/2 lbs.
12	2 1/2 - 3 lbs

Cod.

3 ft	20 lbs.
28-12 inch.	3-10 lbs.
12 inch.	1 1/2 lbs.
20-30 inch	6-13 lbs.
14-20 inch	2-5 lbs.

Silver
Hake

Atherestes

18 inch.

14 lbs.

Limanda aspera.

11-13 inches.

1 1/2 - 2 1/2 lbs.

#58

12 Hungeness crab.

arr. 3 lbs., 7 1/2 in wide 5 in long.

Hungarian crabs.

At Chigrid got so many in purse seine
haul, could scarcely save the net (see below
at Perryville)
recounting
experience of his
natives

At Strawberry Pt. Side Traction
(enough wild strawberries to can) (Nov. 2)

Day St. bet. Dunbar and Point Hope
got so many Hungarian crabs that
traps bent (had 20 large traps)

Grants, Nov. 2. fished Hungarian
here and in Glacie Bay + sold them
to cannery at Uman.

Sept. 24, (Make sheets with
~~large encailed forms~~ ~~desired form~~
in meas height where there is no
and tubercles measure extreme height
where spine replaces tubercle, have to
take median edge for front.

Some articulation of young spec
(? and females) way under
in large males is very hard.

Where Bry. are mentioned are white
(when dark are specifically restated)

Hydras chiefly a very large
one seems only to notice
Hydras in large spec
"full a young attention"

Wh to ~~the~~ ⁶⁸ ⁶⁹ ⁷⁰ ⁷¹ ⁷² ⁷³ ⁷⁴ ⁷⁵ ⁷⁶ ⁷⁷ ⁷⁸ ⁷⁹ ⁸⁰ ⁸¹ ⁸² ⁸³ ⁸⁴ ⁸⁵ ⁸⁶ ⁸⁷ ⁸⁸ ⁸⁹ ⁹⁰ ⁹¹ ⁹² ⁹³ ⁹⁴ ⁹⁵ ⁹⁶ ⁹⁷ ⁹⁸ ⁹⁹ ¹⁰⁰ ¹⁰¹ ¹⁰² ¹⁰³ ¹⁰⁴ ¹⁰⁵ ¹⁰⁶ ¹⁰⁷ ¹⁰⁸ ¹⁰⁹ ¹¹⁰ ¹¹¹ ¹¹² ¹¹³ ¹¹⁴ ¹¹⁵ ¹¹⁶ ¹¹⁷ ¹¹⁸ ¹¹⁹ ¹²⁰ ¹²¹ ¹²² ¹²³ ¹²⁴ ¹²⁵ ¹²⁶ ¹²⁷ ¹²⁸ ¹²⁹ ¹³⁰ ¹³¹ ¹³² ¹³³ ¹³⁴ ¹³⁵ ¹³⁶ ¹³⁷ ¹³⁸ ¹³⁹ ¹⁴⁰ ¹⁴¹ ¹⁴² ¹⁴³ ¹⁴⁴ ¹⁴⁵ ¹⁴⁶ ¹⁴⁷ ¹⁴⁸ ¹⁴⁹ ¹⁵⁰ ¹⁵¹ ¹⁵² ¹⁵³ ¹⁵⁴ ¹⁵⁵ ¹⁵⁶ ¹⁵⁷ ¹⁵⁸ ¹⁵⁹ ¹⁶⁰ ¹⁶¹ ¹⁶² ¹⁶³ ¹⁶⁴ ¹⁶⁵ ¹⁶⁶ ¹⁶⁷ ¹⁶⁸ ¹⁶⁹ ¹⁷⁰ ¹⁷¹ ¹⁷² ¹⁷³ ¹⁷⁴ ¹⁷⁵ ¹⁷⁶ ¹⁷⁷ ¹⁷⁸ ¹⁷⁹ ¹⁸⁰ ¹⁸¹ ¹⁸² ¹⁸³ ¹⁸⁴ ¹⁸⁵ ¹⁸⁶ ¹⁸⁷ ¹⁸⁸ ¹⁸⁹ ¹⁹⁰ ¹⁹¹ ¹⁹² ¹⁹³ ¹⁹⁴ ¹⁹⁵ ¹⁹⁶ ¹⁹⁷ ¹⁹⁸ ¹⁹⁹ ²⁰⁰ ²⁰¹ ²⁰² ²⁰³ ²⁰⁴ ²⁰⁵ ²⁰⁶ ²⁰⁷ ²⁰⁸ ²⁰⁹ ²¹⁰ ²¹¹ ²¹² ²¹³ ²¹⁴ ²¹⁵ ²¹⁶ ²¹⁷ ²¹⁸ ²¹⁹ ²²⁰ ²²¹ ²²² ²²³ ²²⁴ ²²⁵ ²²⁶ ²²⁷ ²²⁸ ²²⁹ ²³⁰ ²³¹ ²³² ²³³ ²³⁴ ²³⁵ ²³⁶ ²³⁷ ²³⁸ ²³⁹ ²⁴⁰ ²⁴¹ ²⁴² ²⁴³ ²⁴⁴ ²⁴⁵ ²⁴⁶ ²⁴⁷ ²⁴⁸ ²⁴⁹ ²⁵⁰ ²⁵¹ ²⁵² ²⁵³ ²⁵⁴ ²⁵⁵ ²⁵⁶ ²⁵⁷ ²⁵⁸ ²⁵⁹ ²⁶⁰ ²⁶¹ ²⁶² ²⁶³ ²⁶⁴ ²⁶⁵ ²⁶⁶ ²⁶⁷ ²⁶⁸ ²⁶⁹ ²⁷⁰ ²⁷¹ ²⁷² ²⁷³ ²⁷⁴ ²⁷⁵ ²⁷⁶ ²⁷⁷ ²⁷⁸ ²⁷⁹ ²⁸⁰ ²⁸¹ ²⁸² ²⁸³ ²⁸⁴ ²⁸⁵ ²⁸⁶ ²⁸⁷ ²⁸⁸ ²⁸⁹ ²⁹⁰ ²⁹¹ ²⁹² ²⁹³ ²⁹⁴ ²⁹⁵ ²⁹⁶ ²⁹⁷ ²⁹⁸ ²⁹⁹ ³⁰⁰ ³⁰¹ ³⁰² ³⁰³ ³⁰⁴ ³⁰⁵ ³⁰⁶ ³⁰⁷ ³⁰⁸ ³⁰⁹ ³¹⁰ ³¹¹ ³¹² ³¹³ ³¹⁴ ³¹⁵ ³¹⁶ ³¹⁷ ³¹⁸ ³¹⁹ ³²⁰ ³²¹ 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Date _____, 194____. Sta. _____ Location _____ (Form E)

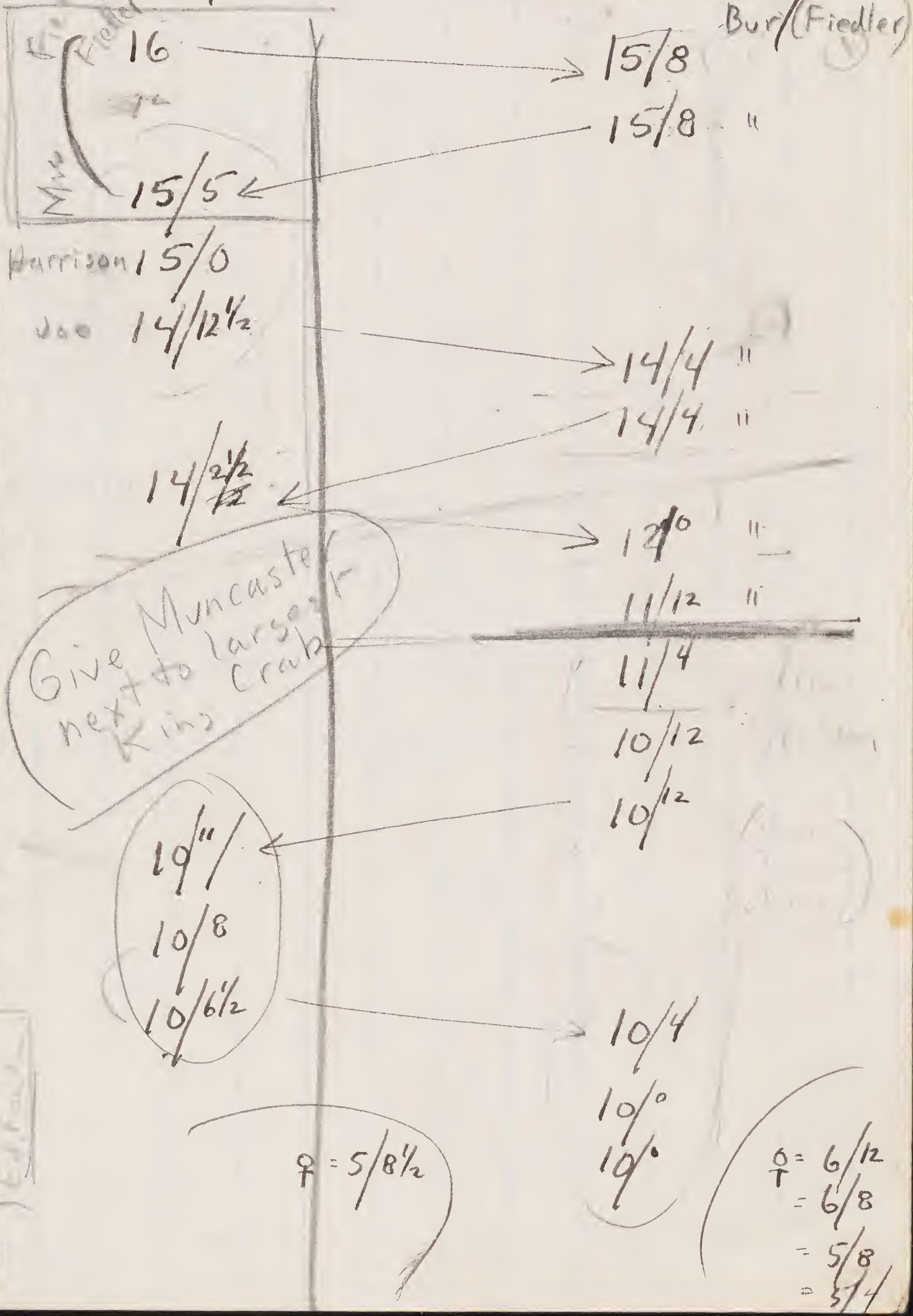
	1	2	3	4	5	No.
1. No.						No.
2. Sex						Sex
3. Condition (hrd. sft. peeler)						Condition
4. Weight						Growth on shell
5. Length						
6. Width						
7. Width abd.						
8. Lgth. 3rd merus. rt.						Abnormalities
10. Tag No.						
11. Growth on shell						
12. Food in mouth parts						width
13. Stomach contents						Length
14. Parasites, (gills also)						Length 3rd rt. merus
15. Weight total eggs						Length 3rd rt. merus
16. Eggs per unit						Major long chela
17. Major chela long						" high
18. " high						" wide
19. " thick						across articulat.
20.						Tag No

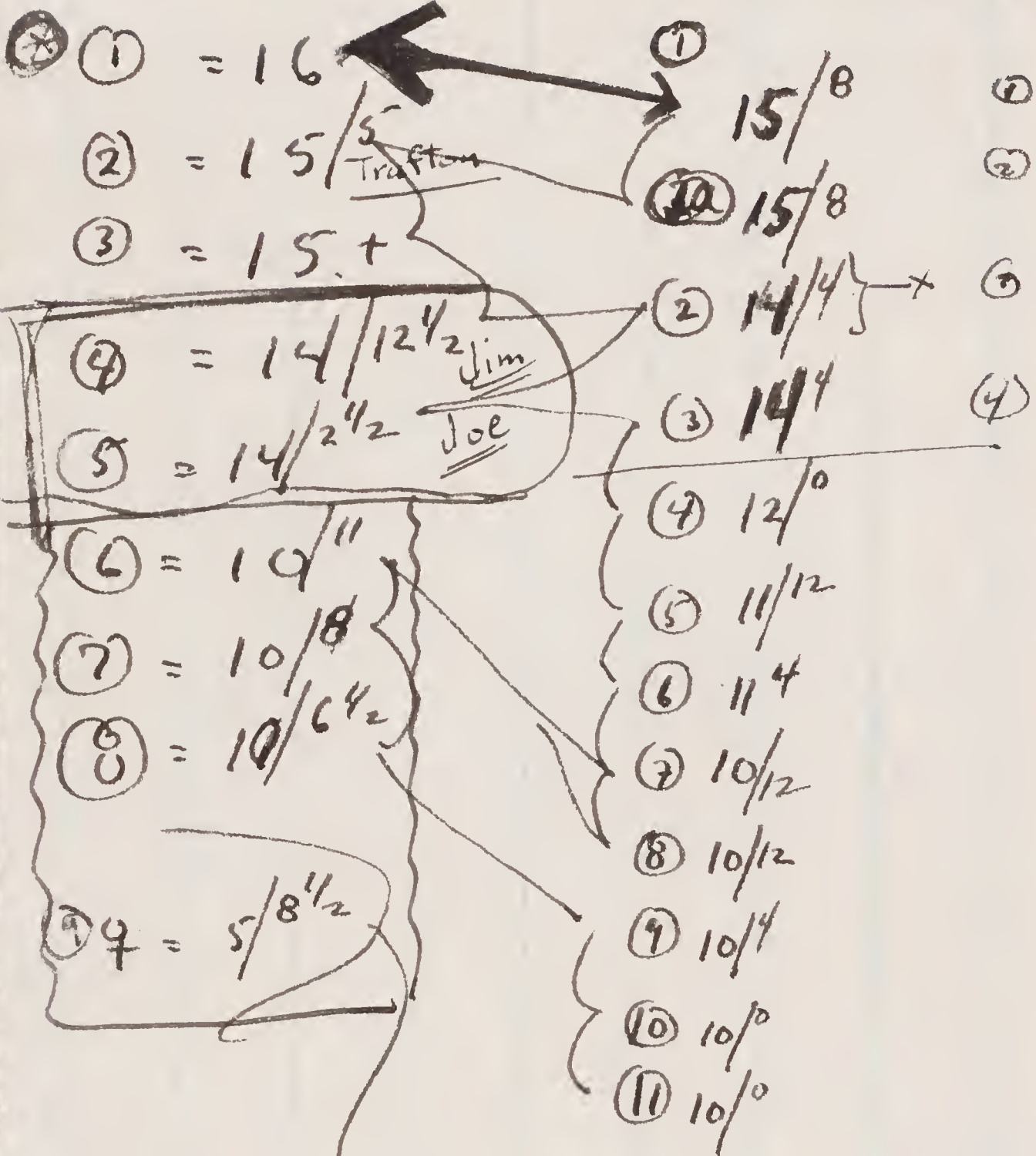
Out with first 4 measurements
make fewer entries per sheet
at same time
more needed for earlier
comparing

Abnormalities
reversal of legs.

Tag No 1
2
3
4
5

In icebox - lbs - Cleaned and dry
 Bur/(Fiedler)

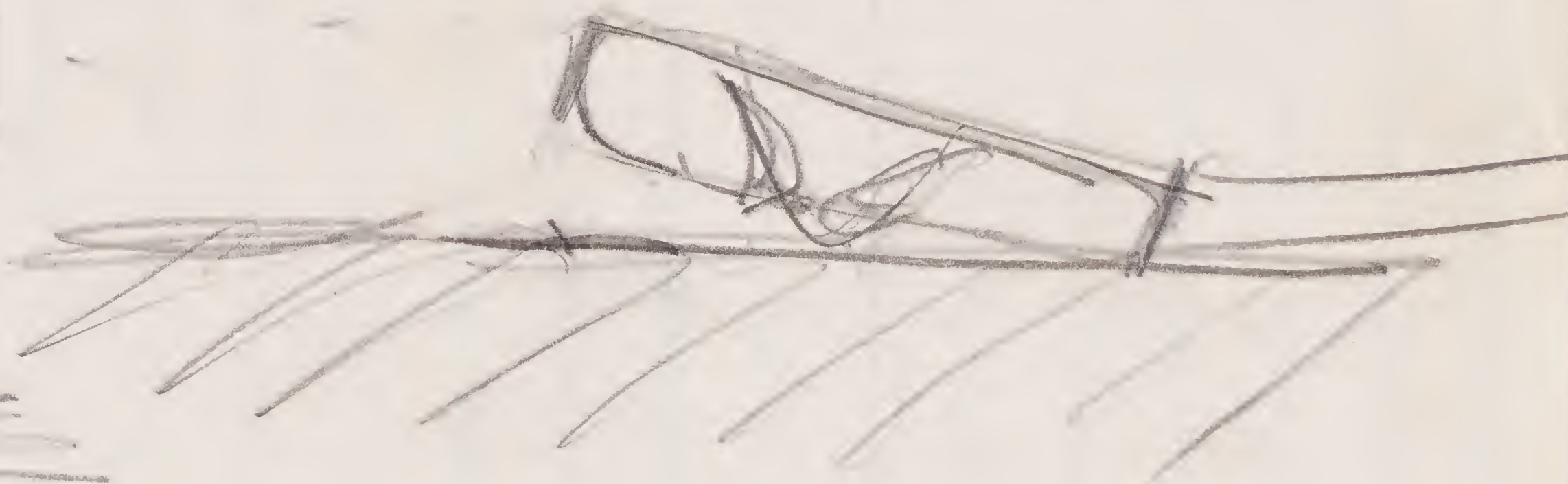
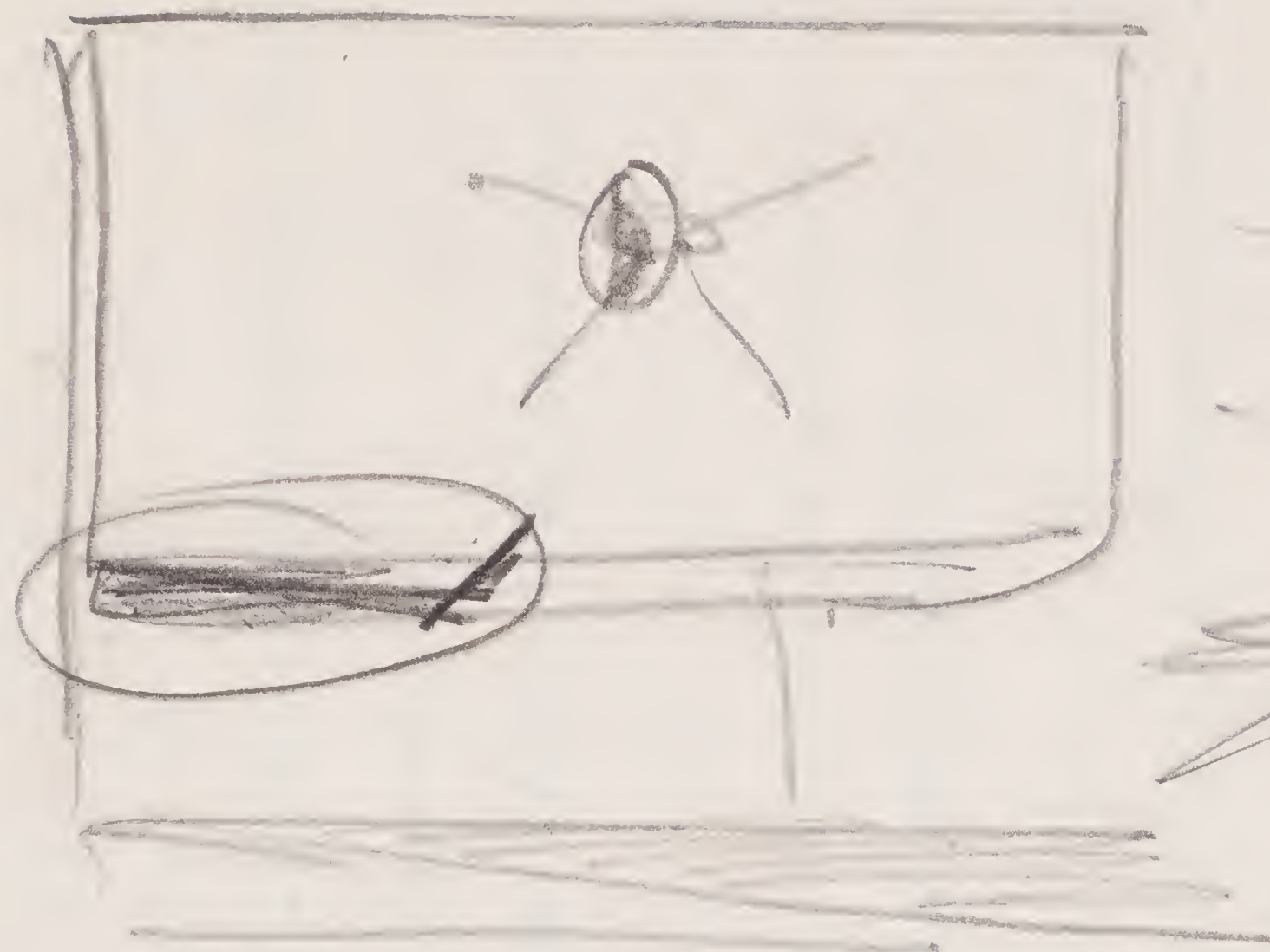




Ed in Ice
 Trafton Boy
 Wesley
 Standing

♀
 I = 6/12
 II = 6/8
 III = 5/8
 IV = 5/4
 ⚡

I saw that door was not
fishing right last day we were
out with Shanty



Shanty's
hand has
not yet fished right



Day 10 + 20% = Better diet reg
Aug. Air temp Sea Level bet 12.5 + 10°C.
Nov. 5 + 2.5°C

Stomach contents } Dec. Jan. Diet.
10 - 15%
June July Aug.
more than 2.5%.

Cloudiness Jan. Feb Mar 3 3 5 > 8%
July Aug Sept. more than 7%

Precipitation mm. for year mean.
1,000 - 1,500 mm.

Surface water temp (Feb) 2-3°C.
(Mar) 4-5-6
(Aug) 10°-9°
(Nov) 5°-4°

Water at 200m = 3-4°C.
400 = 3.4-4

Salinity 33.0 - 32.5
surface

currents are westward along
direction of id chain.

Bun. 704 Fed. Rd.

Aug. 27 Sept Seattle in rain Aug. 27.

28 Warm sun most all day

29 Warm .. my day.

30 Rainy-muggy. Fussed Bella Bella.

31 Rain off + on all day

Sept. 1 Rain + night

2 Fog sun above, clear sun all day at Petersburg

3 Rainy misty day, rather dark

4 Sun most of time, quite cool

5 Completely overcast but warmer than yesterday.

6. Overcast, misty, hard rain in evening + night

7. Good rain, heavy mist, poor visibility, but still excellent day weather. But beginning in forenoon, especially toward noon we began to experience effects of the williwawis often occurring in these parts. Took shells in N.W. light of largest of Barren Ids

8. By 7³⁰ wind had gone down to S.E. 2, mod. sea + clear, and bar. up, to 30.40 at 4-8 p.m. for 4 or 5 mi. had choppy head sea, but still not too bad to fish.

9 Bright and clear most of forenoon + part of afternoon. By 4 p.m. overcast, S.E. 4, Bar. 30.25. Sea ~~and~~ choppy with rain in late afternoon + night; right on through to past midnight.

10. Better than yesterday, still misty + foggy to near 8. when it cleared up + we had forenoon at least one of best days yet.

Shepherd PR ~~Quincy~~ Co
Post Ashton.

Victor Anderson

Limits of weather conditions
under which one can fish.

Court file

Atlas of Climatic Charts of
the Ocean

Climate of Alaska
Edith M. Silliman

Monthly Weather Rev. Vol. 58
March 1930 pp. 85-103

Cat #	weight	ind ²	wgt
8959	15 1/2	8973	♀ 5 3/4
8968	11 1/4	8971	♀ 5 1/4
8963	12 1/4	8972	♀ 4 3/4
8968	11 3/4	8974	6 1/2
8956	14 1/4	8975	10 3/4
8961	♀ 6 3/4		
8965	♀ 5 1/4		
8964	10		
8970	♀ 5 1/2		
8967	♀ 5		
8960	10 3/4		
8958	15 1/2		
8962	10		
8957	10 1/4		
8969	15		



CONSIGNEE

EXPENSE BILL

Port _____ Date _____
(For Agent's use only)

Address _____ Ship _____ Voy. _____

To Lowe Trading Company Dr.

For transportation Charges and Advanced Charges
on Articles described below

CONSIGNOR From To

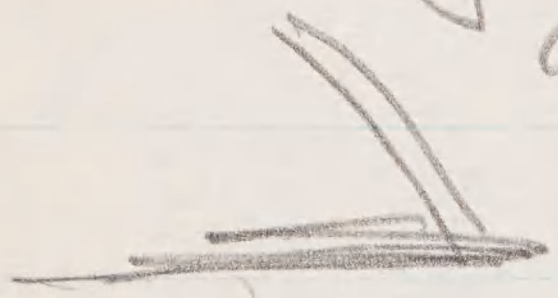
No. of Pkgs.	COMMODITIES			Weight or Measurement	Rate	Charges	
RECEIVED PAYMENT FOR THE COMPANY						TOTAL TO PAY	

All claims must be made within 5 days after Steamer's delivery of goods at landing, and be accompanied by this Expense Bill and original Shipping Receipt or B/L.

LOSS AND DAMAGE CLAIMS MUST BE PRESENTED WITHIN 24 HOURS.

Orange-shuggish red.

Must have some growth on shell
few very little seen, newly moulted
at least barnacles are very small
a shell is quite clean



Largest barnacle = dia & height

notable to weigh & measure, & do
not bite put pencil in bet claws
& tried finger, so findable you do
that gingerly

Tuesday 17 gale while fully set at 3.30
wind rain ~~how~~, and after supper ^{P.M.}
very heavy driving rain.

believe if crabs were carted down
in live wells would do very well &
be source of import, & exclusive
high priced luxury market could
be worked at Belcher & over
Seattle; and reminded of Juan
Fernandez lobster

males differ at once in shoulder
+ general outline of carapace

Female is rounder

metridium + sand anemone

Hydroid || ———— || Bryozoan

Bamboo || ———— || ———— 1 or 2 species

serpulids + sponges in tubes

+ ? sand tubes (? worms)

Re Canoe Bay fishing

At this season at least (Sept. 21 -
Oct. 3) crabs too limited in number to
sustain a profitable commercial canning
project such as Sondeley's with a hauler
as expensive to man and run as the
flotilla (average catch all crabs hauled
considered

Sept 25, 1940,

many flounders, several hundred caught
3 species of which two were taken about
in equal numbers, third had but
few representatives in haul.

Had in haul

12.

bilineata

16. Limanda aspera

3. halibut * and amartrothed
cuttle of cord. *

Great many Chionoecetes

Oregonia

Anemones galore

some Chrysodromus and

some Buccinum like, hairy shell

Macomas dead in mud haul.

Bottom had great many sea
urchins remains, at least that's what
we get in last screen after washing
through mud.

* Ton of flounder cd today, last haul of
day; bet. 15 - 2000 lbs of fish, no young
Halibut smallest 14-16 inches; 1 1/2 - 2 lb
two, 30 - 40 lbs in wt.

2nd abd. white of ♀s ^{ovis} + young
males sticks out way behind ~~low~~
Carapace margin, not as in
adult males, scarcely to be
seen for above

Date _____, 194____. Sta. _____ Location _____ (Form E)

1. No.

2. Sex

3. Condition
(hrd. sft. peeler)

4. Weight

5. Length

6. Width

7. Width
abd.

8. Lgth. 3rd
merus.

10. Tag No.

11. Growth
on shell

12. Food in
mouth
parts

13. Stomach
contents

14. Parasites
(gills
also)

15. Weight
total
eggs

16. Eggs
per
unit

long
17. Major chela

18. " high

19. " thick

20.

Re barnacles

Fresher the crabs less apt barnacles
+ growth to shake off in getting meat
* out + decks (dry) better crabs may
be worse than water kept ones,

* Kept in water died at faster rates
than out on decks. (Very little rain
since rain. It mostly cloudy.)

Water needs to be kept freely
flowing at all times

* But I guess dead barnacles
either way are dead + shake off

Re water getting any available
time day or night that weather
is smooth, therefore search-light
+ lamps for buoy should
positively be available in lieu
of actual light line laid right
out to ship.

How do you account for so
many without any barrels? More
than one yearly move?

Scrapps has a report

Abd. runs back at 45°
+ young males also

~~But to say (5) 000~~

Abdomens of ♀ with the eggs
last ~~ter~~ segment (actual second)
slopes back at an angle of
 45° / In young of both sexes
young males for also 45°

3 Simand ^{about} 3 flonds.
= 1 ft long.

1 Pede islandicus

Oct. 3

4 as Pandah.

90 lb

1 huana 1/2 inch

Antbird

1 Goldfinch

1 Selmes 3 in

1 Petrida

1 Trichostema 1 1/4 long

2 wren like of kind that from
chuntes, about 6 in long

Food of halibut

William F. Thompson in
 Rept. Comm. of Fisheries
 Prov. Brit. Col. for 1914 [1915]
 p. 76-99. "A preliminary report on the life-history of the halibut."

Fish
 Crustacea
 Cephalopods
 Echinoderms } sparingly
 Annelids }

Coelenterates: Sea anemones, usually fastened to rocks

Echinoderms: Brittle stars, starfish, sea-urchins, and sea cucumbers

Annelida: Sea-hares and Echiuroidea

Brachiopoda: Unknown species of Lamp-shell

Crustacea: Crabs only

Mollusca: Clams and Cephalopods

Vertebrata: Fish (with many fisherman's stories of birds to indicate the capture of divers.)

Fish. Grey cod. (Gadus macrocephalus)

Red cod (Sebastolobus alascanus)

Gadus macrocephalus = (grey cod)

Ammodytes personatus = (sand lance)

Atheresthes stomias = (ghost or long-jaw)

Squalus sucklii = (dogfish)

Hydrolagus collei = (ratfish)

Sebastes alutus = (red cod)

Anoplopoma fimbria = (black cod)

Clupea pallasii = (herring)

Raja { rhina
binoculata } = (skate)

Ophiodon elongatus (ling-cod)

Hippoglossus hippoglossus (halibut, principally viscera)

Cyclopterus ventriosus (lump-fish)

Prionistius macellus

Sebastolobus alascanus
 (red cod)

Psychrolutes paradoxus

Malacottus zonurus

Oncorhynchus kisutch
 (coho salmon)

Crustacea

Macrura

Crango sp.

Anomura

Pagurus alaskensis (Benedict)

? Pagurus ochotensis (Brandt)

Pagurus canfractus (Benedict)

Pagurus splendescens Owen

Pagurus species

Acantholithodes hispidus Stimpson

Extends range from Vancouver Id. to Kodiak
and depth from 16 to 40 fms.

Lopholithodes mandtii Brandt

Lopholithodes foraminatus Stimpson

Extends range from Victoria, Brit. Col., to Kodiak Id.

Brachyura

Oregonia gracilis Dana

Chorilia longipes Dana

Chionoecetes Janneri Rathbun

Hyas lyratus Dana

Cancer productus Randall

Cancer gibbosulus (de Haan)

Pinnixa species.

Cancer magister
mutes May & June
eggs carried to following
spring

one year after mating
larval life complete
part larval young found in June

Boundary Bay Aug-Sept
many soft star larvae

Sept. 27-1940
Caught 2306 Tagged spec.
in crab

Traps may marking crab ground
in Canoe Bay is set in 10 fms.

Crabs measured on Sept. 27-1940 were
weighed on old cannery (N.6) balance
Good scales used day Crab measured
Sept. 27 best haul in 40 fms.

This year fished out next year
crop of abas

Sunday 22 Grand clear
occ. little rain or sunny day

Warm + stormy like

Capt. went dredging with
out giving me 2 min notice

Was struck a murex here
as female + young few large

Out started an back at
devil fish, looking for
in quiet night down

looked like down
had to put about 8-10
large Pyramothoda
ochter.

on

young crabs
fiskier than
large

may not
dirt into
tube of basket
water.

- Sep. 28
 And is believe big fellows of 11 lbs
 with perfect clean carapace have not
 molted since a year ago or is
 it just molted ago (Act #443)
 largest barnacle + Boy on carapace =
 0.202 | 0.168 |
 Had a large B on right and leg = 0.283


Reg. Ram. vessel could a curiously
 get things as begun + ends it has
 should also have fullness

~~slightly~~
 largest + shallow traps next year
 for measuring crabs

deeper a deeper hauls only 3's
 females + small specimens at
 in the hauls, never got
 50/50 percentage in hauls
 at the time of year

shade a double line to show
 it from E.
 Print in diagram points
 + line for eye ovals

Date , 1941. Sta. Location (Form E)

1. No.	719					
2. Sex	♂					
3. Condition (hrd. sft. peeler)	med					
4. Weight						
5. Length	7.873					
6. Width	9.246					
7. Width abd.						
8. Lgth. 3rd merus.	7.143					
9.						
10. Tag No.						
11. Growth on shell						
12. Food in mouth parts	Large bivalve benard shells S. med.					
13. Stomach contents	off Rana regent					
14. Parasites (gills also)						
15. Weight total eggs						
16. Eggs per unit						
17. Major chela long	5.154					
18. " high	2.873					
19. " thick	2.018					
20.	1.718					

Date _____, 194____. Sta. _____ Location _____ (Form E)

	(Ia)	(I)	(7)	(3)	(II)	(IV)
1. No.	8958 #865 or #860	8961 #871	8975	8963 #868	8970 #876	8971 ?#874 or 875
2. Sex	♂	♀	♂	♂	♀	♀
3. Condition (hrd. sft. peeler)	15/8					
4. Weight	7.1	6/12	10/12	12/4	5/8	5/4
5. Length	7.670	6.380	6.888	7.230	5.847	5.839
6. Width	9.239	7.090	8.268	8.953	6.599	6.486
7. Width abd.						
8. Lgth. 3rd merus.						
10. Tag No.						
11. Growth on shell						
12. Food in mouth parts						
13. Stomach contents						
14. Parasites (gills also)						
15. Weight total eggs						
16. Eggs per unit						
17. Major chela long	5.054	3.554	4.598	4.731	3.341	3.306
18. " high						
19. " thick						
20.						

Date _____, 194____. Sta. _____ Location _____ (Form E)

	(8)	(9)	(4)	(10)	(11)	(12)
1. No.	8960	8957 # 862	8969 # 8969	8962 # 861	8972	8967 # 873
2. Sex	♂	♂	♂	♂	♀	♀
3. Condition (hrd. sft. peeler)			(4)			
4. Weight	10/12	10/4	12/00	10/00	4/12	5/0
5. Length	6.833	6.597	6.811	6.836	5.824	5.713
6. Width	8.185	8.182	8.585	8.005	6.565	6.287
7. Width abd.						
8. Lgth. 3rd merus.						
10. Tag No.						
11. Growth on shell						
12. Food in mouth parts						
13. Stomach contents						
14. Parasites (gills also)						
15. Weight total eggs						
16. Eggs per unit						
17. Major chela long	4.440	4.496	4.483	4.455	4.455	4.455
18. " high						
19. " thick						
20.						

Date _____, 194 . Sta. _____ Location _____ (Form E)

	(6)	(11)	(1)	(II)	(5)	(2)
1. No.	8966 #867	8964	8959 #857	8974 #872	8968 #870	8956 #866
2. Sex	♂	♂	♂	♀	♂	♂
3. Condition (hrd. sft. peeler)	(6)					
4. Weight	11/4	10/0	15/8	6/8	11/12	14/4
5. Length	6.942	6.464	7.741	6.351	7.022	7.468
6. Width	8.640	8.016	9.986	7.089	8.586	9.288
7. Width abd.						
8. Lgth. 3rd merus.						
10. Tag No.						
11. Growth on shell	○	doz or more B				
12. Food in mouth parts						
13. Stomach contents						
14. Parasites (gills also)						
15. Weight total eggs						
16. Eggs per unit						
17. Major chela long	4.771	4.267	5.253	3.438	5.150	5.189
18. " high						
19. " thick						
20.						

migrations important
come into 15 f. to mouth
35 fms Jaws fish.

St. Lawrence Id + July 1937

John May drove sparrow
Blue mud bottom.

Take as deep as 800 fms.

West side of Daniels

Davidson Bay

East side Kulibini

feed a ~~crabs~~ / only
small ones taken

Sep. 1861. 1st. 1st.

Harvested & dead
less black?

Sand flies ich. 1st.

The round white ^{diss.} like
Bryozoan measured
is Lichenopora hispida
in most cases
may be verrucaria
in some.

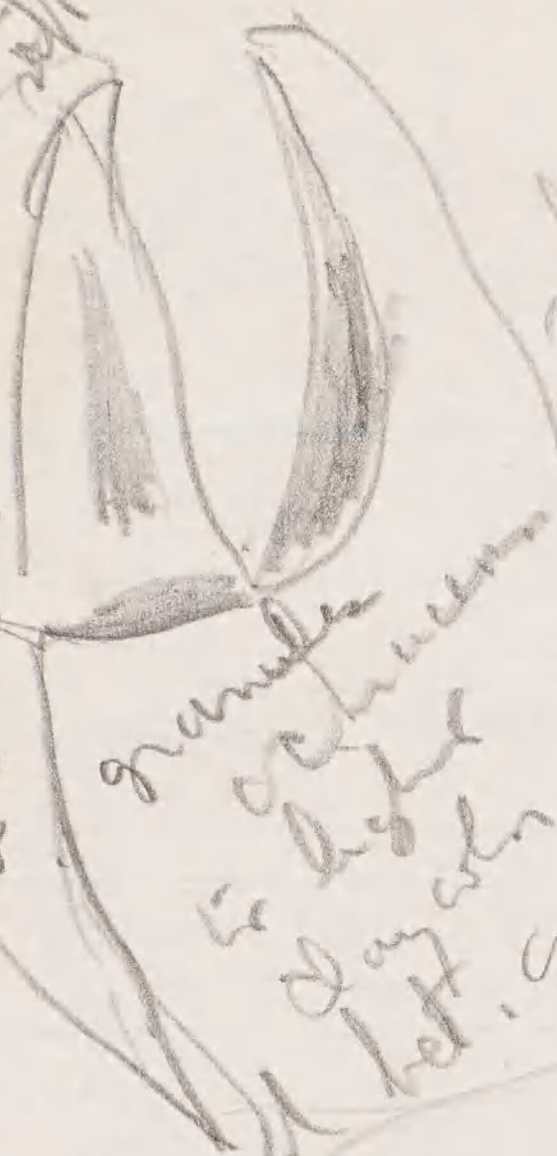
of the other bryozoan
occasionally a ~~hard~~
one is mentioned; this
species is Sagellia
arctica and
Hippothoa hyalina

Send E Vanhane Oct 7/40

① #14-40 1 clear 4 sand covered
ascidians.

② #17-40 3-4 clear about 6
sand covered
ascidians

white with purple
stippling



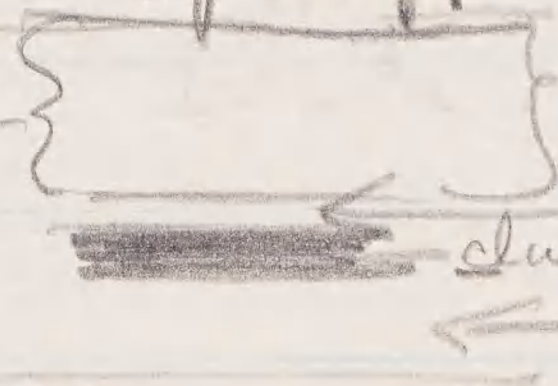
shaded
darker
brown

granules
of
light
brown
to
dark
brown

greenish white

dactyls striped with
darker brown & white

prothorax = lower half
of after surface mainly
white above & b

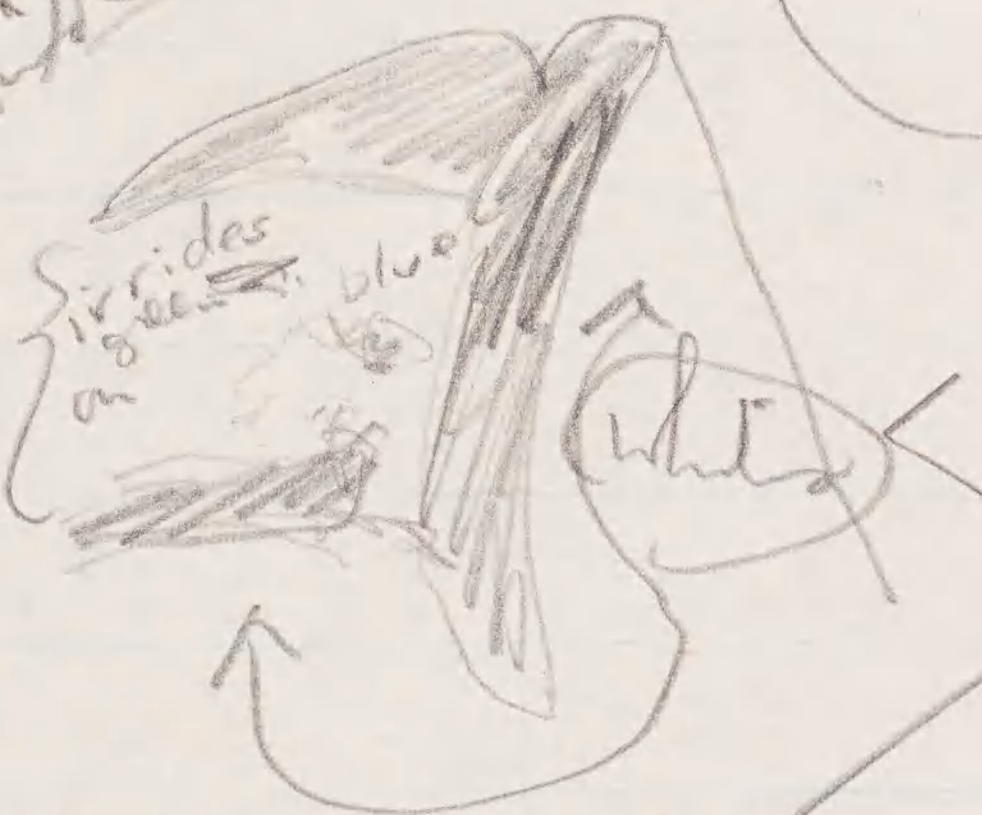


darker brown

white above
trachea
white to
lower margin

after part olive buff to
olive yellow

bluish



white

plumbeous
x china blue

Sept. 30/40
Sta 49

Oct. 7/40

DB C. McLean Fraser

- ① From gill chamber of crab #480.
Sept. 27, 1940 3 little half
in the "handles" of
hydroids
- ② From crabs measured Sept. 24, 1940
= several tufts of hydroids.
- ③ #14-40 Sept. 18, 1940
= several tufts hydroids
- ④ #17-40 Sept. 19, 1940
= several tufts of hydroids.

Sent Miss Hyman

Oct. 7/40

Flatworms from Haul # 16-40
(very macerated) Sept. 1940 3+

Haul. 14-40	Sept. 18 - 1940	1	
" 51-40	Oct. 2 - 1940	1	
49-40	Sept. 30 - 1940	6	} Two lots same ho.
49-40	Sept. 30, 1940	5	

Sent. to R.C. Osborn.
5 Vials Bryozoa

(1) = Indoleyo cut Brch

(2) = Crabs measured

(3) = #14 ?

(4) = #17 ?

(5) = were the four fire vials

Card of five groups posted on
how kept by card.

Sent to Miss Hartman Oct. 7/40

- ① #17-40 Sept. 19, 1940
various worms for
analysis
- ② #14-40 3 pcs sand worm tubes
2 bundles (were originally
fused together with Serbellid tubes)
- ③ # From Budeleyo crab trap
1 vial calcareous tube building worms
- ④ #14-40 second vial 3-4 sand tube
building worms + tubes.

Barnacles on crab shells saved

#7 = 8.392	(1 ab 13 legs ^{small} / 37.5 mm.) largest B =	0.198 or 99
#51-40 = 8.368	largest B =	0.652
#6 = 8.257	largest B =	0.724 ±
#5 = 8.084	largest B =	0.686 0.704
#4 = 8.023	largest B =	0.763
#3 = 8.009	(base only) largest B =	0.290
#708 = 7.922	1 B only =	0.304
#604 = 7.705	no B spiracles blk. bry only	0.000
#2 = 7.655	largest B =	0.656
#1 = 6.454	excl. 1-2 spiracles + few small bry no growth	0.000

1 Range B
2 cur base
fell off only
as result measure.

Barnacles on Tondelago crab trap frame (light angle iron)

#1 largest =	0.704 x 0.647 x 0.401 high
#2 next	0.471
#3 third largest	0.452

Sept. 17-1940

Orig ♀ of Sept. 17-1940 Sta. 13-40

Flesh, pleopods + eggs =	413 gr	14.800g
Flesh and pleopods =	<u>157 gr.</u>	<u>5.800g</u>

Total egg mass	<u>256 gr.</u>	<u>9.000g</u>
----------------	----------------	---------------

Selected sample of ^{+ dish} eggs =	155 gr.	5.450g
Dish + bag =	<u>140 gr.</u>	<u>5.100g</u>
	<u>15 gr.</u>	<u>.450g</u>

Sept. 21, 1940

♀ A

19-40

	gms.	ounces
Weight Eggs + (Pan + Bag)	392	14
Weight of Pan + Bag	<u>139</u>	<u>5</u>
Weight of Entire Egg Mass	253 gms	9 ounces

Weight Eggs to be counted (+ Pan + Bag)	148	5.3
Weight of Pan + Bag	<u>139</u>	<u>5</u>
Weight of Eggs put in ROH to be counted	9 gms	0.3 ounces

♀ B

Weight Eggs + (Pan + Bag)	427	16.00
Weight of Pan + Bag	<u>140</u>	<u>5.05</u>
Weight of Entire Egg Mass	287 gms.	10.95 g

Weight of Eggs to be counted (+ Pan + Bag)	148	5.25
Weight of Pan + Bag	<u>140</u>	<u>5.05</u>
Weight of Eggs put in ROH to be counted	8 gms.	0.2 oz.

Sept. 29, 1940

46-40

Canoe Bay

		gms	ounces
Crab # 594	Weight total eggs	177.0	6.3
	Weight of eggs to be counted (in Bannin's)	9.0	0.4

Crab # 595	Wgt. total eggs	178.0	6.32
	Wgt. eggs to be counted (Bannin's)	10.0	0.4

Crab # 596	Wgt total eggs	130.0	4.67
	Wgt. eggs to be counted (Bannin's)	10.0	0.4

(Amphipods were taken from egg masses)

Sept. 30, 1940

46-40

Cave Bay

Crab # 598

wgt. of total eggs

gm

175

oz.

6.20

wgt. to be counted
(ROH)

7

0.18

Crab # 599

total wgt. of Eggs

155

5.50

wgt. Eggs to
be counted
(ROH)

10

0.32

Sept. 30, 1940

46-40

Cuave Bay

		gms	ounces
Crab # 600	Wgt. of total eggs	206	7.35
	Wgt. eggs to be counted (Bourin's)	12	0.4

Crab # 597	Wgt. of total eggs	52	1.82
	Wgt. eggs to be counted (Bourin's)	13	0.46

(This crab had comparatively few eggs & their color was a darker rust brown. Maybe she had shed some already?)

Crab # 602	Wgt. total eggs	205	7.30
	Wgt. eggs to be counted (Bourin's)	8	0.19

Crab # 603	Wgt. total eggs	163	5.80
	Wgt. eggs to be counted (Rolt)	10	0.35

Crab # 601	Wgt total eggs	135	4.80
	Wgt. eggs to be counted (Bourin's)	12	0.40

9/30/40 #49-40

Canoe Bay

(Barby
Orin)

S8917	—	1.8 oz.
S8918	—	1.0 oz.
S8919	—	1.42 oz.
S8920	—	1.3 oz.
S8932	—	1.3 oz.
S8933	—	1.22 oz.
S8934	—	1.70 oz.
S8935	—	0.85 oz.
S8936	—	1.92 oz.
S8937	—	1.10 oz.
S8938	—	1.62 oz.
S8939	—	1.40 oz.
S8940	—	1.10 oz.
S8941	—	1.80 oz.
S8942	—	1.65 oz.
S8943	—	1.10 oz.
S8944	—	1.50 oz.
S8945	—	1.08 oz.

Porpoise was taken
90 miles NW of Cape Semisum
Bristol Bay July 17 1940

Latitude $57^{\circ}47'$
Longitude $161^{\circ}20'$

Tooth brush accom-
panied with 1 of the kind
had Capt. Anderson by the
one buy 6 coat buttons
but 2 in Coiler have
are left for myself
now none left for self.

2 pr. shoes are in a box
for.

has oil skin, and for by
rain coat.

I have a box to provide like
lunch, I find it used.

ask for oil when I get
from small portion for 2
pr. shoes

Capt. Nelson made this a.m.
after tooth brush last night

Shum and pk.
South branches:
Purcell Pass

Amphipods identified by Mr. C. R. Shoemaker

No. 46. 2 vials. Sept. 30, 1940, from egg masses of
Paralithodes camtschatica.

Ischyrocerus commensalis Chevreux Many

No. 143. 1 vial. Sept. 22, 1940.

Ischyrocerus commensalis Chevreux 1

No. 477. 1 vial. Sept. 27, 1940.

Ischyrocerus commensalis Chevreux Many
Orchomenella pinguis (Boeck) 1

No. 480. Sept. 27, 1940--from gills.

Ischyrocerus commensalis Chevreux Many

No. 483. Sept. 27, 1940. From gill chamber

Ischyrocerus commensalis Chev. Many

No. ? Sept. 24, 1940 (from crab measured)

Ischyrocerus commensalis Chevreux 3

157371

Dr. Waldo L. Schmitt
Alaskan trip

Marine annelids identified by Miss Hartman

No. 14-40. Sept. 18, 1940. Canoe Bay, Alaska. Lot 1.

Idanthyrus armatus Kinberg, subsp. pennarmatus MS -
Vermiliopsis sp.
Juvenile sabellid, probably Schizobranhia sp.

No. 14-40. Lot 2.

Idanthyrus armatus subsp. pennarmatus MS (4 spec.)
Pseudopotamilla intermedia Moore
Lagisca, juvenile
Spirorbis, probably spirillum Linn.

No. 17-40. Sept. 19, 1940.

Idanthyrus armatus, subsp. pennarmatus MS
Potamilla neglecta (Sars)
Pseudopotamilla intermedia Moore
Sabella crassicornis Sars
Vermiliopsis sp.
Lagisca rarispina (Sars)
Crucigera zygophora Johnson

From Tondeleyo Crab Trap, Canoe Bay, Alaska. Sept. 23, 1940.

Crucigera irregularis Bush
Vermiliopsis sp.

157371

Dr. Waldo L. Schmitt
Alaskan trip

List of ascidians identified by Dr. Van Name

No. 14-40. Sept. 18, 1940. Canoe Bay, Alaska. From Paralithodes camtschatica.

Molgula retortiformis Verrill, 1871. (Eggs in peribranchial cavity.)

No. 14-40. Data as above.

Molgula retortiformis Verrill 1871. NOTE: Such a smooth specimen is unusual.

No. 17-40. Sept. 19, 1940. Canoe Bay, Alaska.
From Paralithodes camtschatica.

Ascidia callosa Stimpson 1852.

No. 17. Data as above.

Molgula retortiformis Verrill, 1871

No. 17. Data as above.

Molgula retortiformis Verrill 1871. (Eggs in peribranchial cavity.)

No. 17. Data as above.

Molgula retortiformis Verrill, 1871. (Eggs in peribranchial cavity.)

157371

Dr. Waldo L. Schmitt
Alaskan Trip

Flatworms identified by Miss Hyman

No. 16-40. Sept. 19, 1940.

Notoplana sanjuania Freeman 1933

1 vial

No. 14-40. Sept. 18, 1940

Notoplana sanjuania Freeman 1933

1 vial

No. 49-40. Sept. 30, 1940

Notoplana sanjuania Freeman 1933

2 vials

No. 51-40. Oct. 2, 1940

Notoplana sanjuania Freeman 1933

1 vial

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM
WASHINGTON, D. C.

November 6, 1940

Dear Dr. Schmitt:

The amphipods and mollusks arrived in good shape. I have identified the amphipods and the mollusks have been sent to Dr. Bartsch with the request that the names be furnished as soon as possible.

There are only two species of amphipods. All except one specimen are Ischyrocerus commensalis Chevreux. This species was taken by the Cheticamp Expedition in the Gulf of St. Lawrence, which was the second record of its occurrence. Your record makes the third. Chevreux's specimens were taken off St. John's, Newfoundland, in 150 m., and were found on a starfish (probably Crossaster popposus Bruz.). The Cheticamp specimens were taken free, not commensal. It is nice to have your fine series from the west coast.

A single specimen of Orchomenella pinguis (Boeck) was taken from the gills of the crab No. 477.

The specimens which you sent to Van Name, Miss Hyman, and Miss Hartman have been sent to us identified and in case you have not received their identifications Miss McCain is sending their reports to you. Hope you receive all these identifications in time to be of use.

We are glad to learn that you are having such a successful "outing" as far as specimens are concerned. It is too bad that you can get no news of what is going on in this tired, sick old world, but I know you will jump for joy when you hear that your friend will be in the White House for another four years, or perhaps eight, or perhaps twelve, or ad infinitum.

Cornwall's initials are I. E., and he is now at Cliffside P.O., Vancouver Island, B. C., Canada.

Kelly went to the hospital today for his operation. He will probably be away at least six weeks. Trembly has promised to give us a substitute.

With best wishes,

Yours,

Clarence

Total dish + eggs

14.80 oz

413 gm

sample eggs

5.45 oz

155 gm

dish + plaster

5.80 oz

157 gm

$$9 = 3.543\overline{18}$$

$$8 = 3.14\overline{96}$$

$$\begin{array}{r} 3.937 \\ - 1.96 \\ \hline 4.133 \end{array}$$

Indit dr

smallest orig $\frac{0}{15}$

$$= 4.46\overline{41}$$

width

#129

$$4.844$$

#109

$$4.510$$

Our
smallest
females =
Had
no eggs

#107 ♀

$$4.271 = \text{no eggs}$$

#127 ♀

$$3.775 = \text{no eggs}$$

16.5

Feb.
69

Helmae

Amun

Mc Cain for acc. no.

(ver)

Photod
of Platyfish

= 5.308 wide

Larger NA = 7.145
wide

ms.

Sta.

Phot note

① + Cantschatca

6.24/6 wide

Institution.

Smithsonian

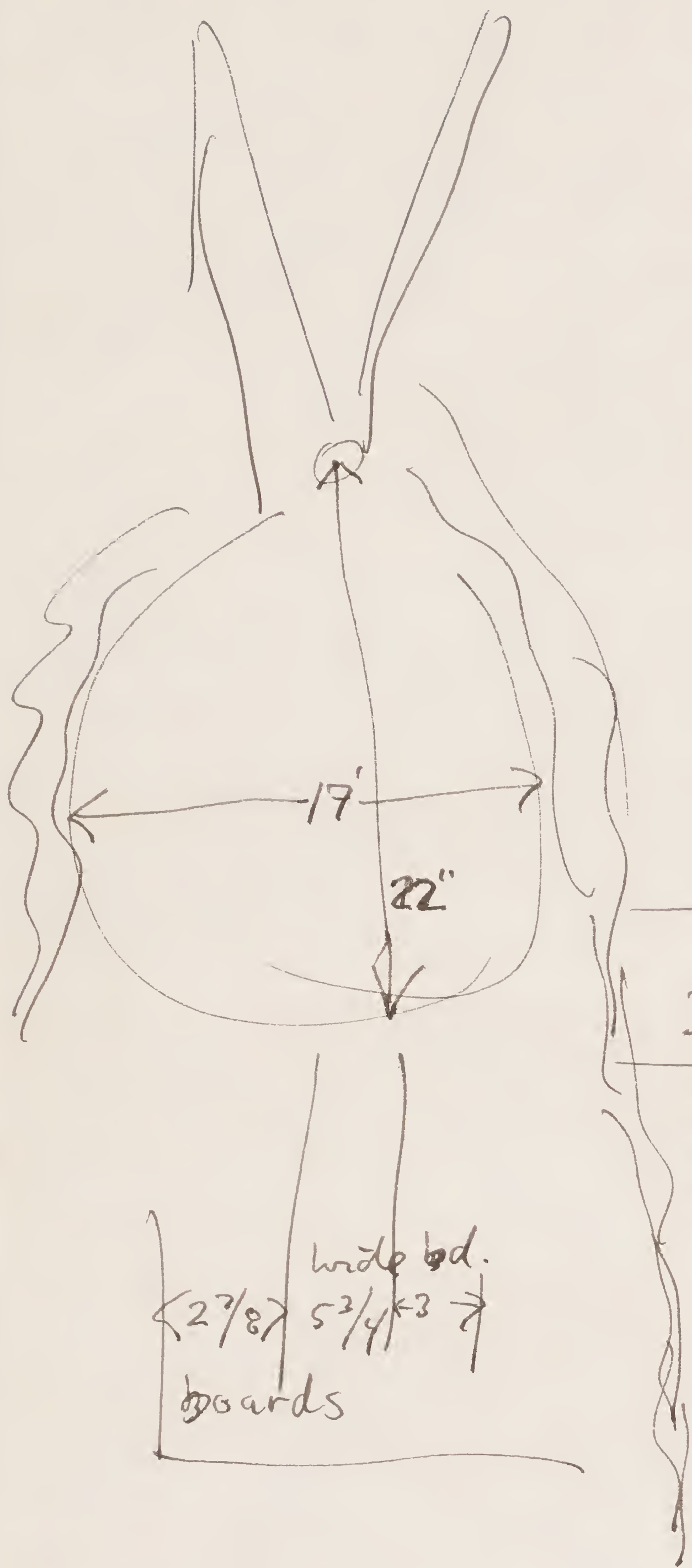
wide plank 5 + 3/4 mm
5 2/4 in wide 3 1/2 little

Bur. of Fisheries.

U. S. Nat. Mus.

O. August.

Nov. 8/1940



$39 + 14$ in. for mouth

$\frac{4}{3}$

Combschubia

Can reproduce at
100 mm in width
@ 4 inches

depth

area middle &
bottom layers
of anenthor bottom
layers

18-40 fms

early stage (40mm wide)
in 20-30 fms.

150 mm or less
40 fms or less

adults (over 150 mm)

15-100 fms

Spring and summer, gale
above 150 mm are in shallow
water / in autumn & winter
in deep water.

June to August migrate
or feed.

Landfall April to
early May
20-30 fms (3-7 days)

Mults.

Eggs spawn once a year.
Carried for spring in light
Laid till next spring
(rarely spawn advance 2 yrs)

70 - 270,000 eggs

Hatch March to early May
at night & better for 6 hrs.

of anenthor larvae last 20

Sam
Ask
Robbie
Whit
W. H. H.

Olga Bay (number of abnormalities)

771 complete
recovered 4.960
orig 7. wide

Olga Bay 2 fished crabs.

720 . orig 7 Rd. Leng 5.944
wide 6.612

fished cr.
S. 8953

3d measurement 4.794
major depth. long 3.328
high 1.668
width 1.163
across ant. 1.077

721
S. 8952

Sta. #98-40 Oct. 31/40

Spines of *Platypus*? more
needlelike and sharper per se
than cantharidians

1

14

3

11

1

meas. given
in each
case in
this sheet
= width.

#160 orig ♀
5.643

380 orig ♀
5.678

559 ♂ 8.227

604 ♂ (rare)
7.738 (circled)
circled

625 ♂ 6.165
left. missing
right very small
looks like
acrossul cone

#706 ♂ 6.152
reversed

Carare Bay

#473 ♂ 7.378 lif. rare

534 ♂ 7.895 slight lif

606 ♂ 4.120 quite lif
not rare

635 ♂ 7.093 lif.

650 ♂ 7.362 good lif.

665 ♂ 7.126 jux

671 ♂ 8.644 slight.

#680 ♂ over. 3d. -40

8 lb. 10 oz. long 6.312

wide 7.484

Sta 51-40 3d mem. 6.198

dactyl rare

Photo (Sta. 51-40)

681 ♂ over. 3d. -40

7 lb. 11 oz. long 6.224

wide 7.470

3d mem. 5.879

#693 ♂ 3 lb. 12 oz. long

over. 4.711 wide 5.590

3-40 3d mem. 4.350

came B. best lif. yet.

#48 } tagged
#103 } errat
#118 } recovered
#537

Bifurcate
not spec.

#128 bifurcate not
orig like little males
= 5.285 wide =

#135 orig ♀ 5.245 wide

138 } bifurcate juxtaposed
5.669

148 ♂ very bifurcate 5.426

163 orig. ♀ jux. 5.701

177 ♂ 6.540 jux.

232 ♂ 4.146 completely
bifurcate.

248 ♂ 6.042 slight

250 orig ♀ 5.700 lif.

256 " " 5.510 def

260 " " 7.579 lif.

262 6.993 ♂ very def.

269 4.903 orig. slight

276 7.544 ♂

280 orig ♀ 5.187 jux

350 or. ♀ very def. lif.

354 ♂ 8.449 lif.

389 orig ♀ 4.580 slight. lif

396 ♂ 6.490 wide lif.

not rare

404 ♂ 6.603 jux

463 ♂ Eye not in
middle of
back Photo

10 lb. 6.463 long
7.935 wide

Shelby St. Sec
Nov. 15 Sh 127

857 ♂ ^{sta 127} 9.800 wide ^{not. M} small bifurcate
880 ♂ ^{ST. 137} 9.001 ^{C. Naksak} slightly bifurcate

Recently moulted ~~new~~ in house
Crab # 679 ♂ 2 yr. 9 lb. 7 oz
Long 7.113; wide 8.592; 3^d merus 6.893
ms growth on shell
Sutural chela, long 4.662; high 2.508;
thick 1.860; across articulation 1.539

Recently moulted crab sent by mail
678 ♂ 2 yr. 8 lb. 4 oz.
Long 6.999; wide 8.858; 3^d merus 7.290
Sutural chela, long 4.663; high 2.412;
thick 1.786; across articulation 1.510

Call Don Brazas Crabs and
Alphonse ~~Brag~~ ^{Yglander}
Anacortes ^{hard} ^{glacier}
Cothier

Snapping
about 1/2 mile in it.

Open up large bucket
that may be used for food
see what they eat

Also cod & any other
fish that may be suspected
of, or capable of eating
young king crabs.

Save any remaining off living
crabs found, ~~as~~ other crabs
if remaining ~~and~~ appear to
be in sufficiently good condition for
hermion identification

Measurements of barnacles taken from
Tondeley crab-trap frame Sept. 24, 1940
(had been set bet. Mid August and Sept. 3, 1938) ∴ largest should be about 2 yrs old

#1	largest	0.647 x 0.704 x 0.401 high
#2	next "	0.471
#3	third "	0.452

200 tabs aspirin

2 bats oascara

Aspirin 200

Boric acid

Epsom salts

lindays 1 large
sterilizer compress

Call end the

Potassium Bromide

Physic pills

Sodium Salicylate

Calcidin

1 lb. 100 Brown Glycyrrhiza
anhydrous
Bergene acid
Zinc oxide
Cuprum
Oxide

1. doz 19c hand and
pills in a carton

2 (305) Apex Fever Thermom
2 (305) Ammoniated mercury
Large cedar = 1 qt.
Dun muffle

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEPARTMENT OF COMMERCE
BUREAU OF FISHERIES

2 (1 lb) bottles rectified salicylate

2/3 (1 lb) bottle of castor oil

1/2 of 1 lb bottle Sygarol

5 2 inch bandages 10 yds each

2 one ounce guage
2 one cotton

2 (1 lb) bottles Sygarol
Coranyle

Alcohol
Ethyl morphine hydrochloride
Syringine Euphorbia Pilularia

leaf
Syringine cold extract

Squid

Cascarin 8 grs

Menthol

dose 1 (1/2) per full refect

Tooth ach (primaries relief)
McKesson

Epinephrine 16 oz

Boric acid crystals 4 oz

Spirit of camphor, 2 each

Handy tape (like band aid
a few)

Acetate liniment compound
#1 Sygarol 100 each 3 bottles

Zinc ointment 3 tubes

H. Ambles compound pills 3 bottles
100 each

Cascarin 1/4 gr. Chlorin 1/4 bottle Sygarol

1/6 gr. Sygarol belladonna 1/8 gr. Sygarol

1/60 Oleocarin Sygarol 1/16 gr. 1 or 2 night
annoy

Alumina 2 bottles
100 each

Cathartins pills 100 Calomel
pills 2 pills

Soda mint Sygarol 100

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEPARTMENT OF COMMERCE
BUREAU OF FISHERIES

Dunginess Crabs

is often for attracting dunginess crabs.

piece sig head in mud placed in fresh (empty)
clam shell. recently cleaned

small like *Helanoglossids*?

Jap methods of fishing king crabs.

- ① put out in motor sampans
- ② gathered up in "trawlers" over rollers.
Whole miles at time
- ③ Nets carried back to mother ship in heaps.
all these untangled, & piles of nets mended
- ④ + put in order ready for use dropped back
as sampans which put them out again

Sort of continuous process.

? This method accounts (?) for dead
crabs & yellow meat.

a Sept in nets for long

b. Crushed over rollers or

c. Broken in removing from net.

d. Also destroys young crabs that
might be returned to sea to
grow up.

Northpole with Anderson

1931

net across bow, for side to side
over rollers. Dropped crabs in
hole in deck, in bow of boat, for
gill nets.

King Crab notes

Oct. 10 Crabs for 20-30 fms seemed
livelier

Oct. 10 2nd haul of day, 25 fms. deep and
finding large crab due to drift plan
of attacking Bay. was surprised that with
mud would carry king crabs.

Oct. 11 Chironocetes - lots of them in Senard Str.
seem to be a sure indication of king crab
ground than anything else, as for example
the ^{lar} gill net (by helms in Carve Bay).

Oct. 11	1st crab weighed 14½ lbs.	} used old scales for wet and dry.
	2nd " " 12 lbs.	

Oct. 25 Bait for traps, salmon or other
fish heads. Drapton believes
from Bering Sea & Carve Bay
experiences that crabs follow
the salmon; got dead spent salmon
(long dead dried?) in net in Carve Bay.

(X)

{ Off time should be fished before
ad during salmon season.

Coming in with salmon perhaps explains
where in the str. & vicinity in fish catch.

monthly
Of crabs taken a last two days
in Canoe Bay.

— caught

— canned

— died

{	20 or 25
	each hundred
died.	
were a deck	
from — to —	

Mortality. 6 crabs left out in the
for 24 hrs. still had "gill barrels",
scaphognathites, functioning though
feebly, were alive, while _____ crabs
of second half gill net ^(one or two of these were placed in water but did not see able to revive)
(no. = dead ones that Joe cannot revive)
died over night in the two tanks
approx - - - x - feet in which they
were placed even though the water was
changed several times.

of the - - - - - at Alhuts.

(date) At Oga Bay - crabs, though
crowded in a ^{standards} x day - x feet, but
supplied with running water except one
night when temperature dropped to
freezing (~~the~~ ^{the} ice formed on the
bay, came through nicely, while of
- odd crabs - died in live cage
for except between 9 p.m. and 7 a.m. they
were on deck of ship, though placed
in live box on arrival at Alhuts.

crabs molt in certain sheltered areas
Also Canoe Bay. (at least at this season of year)
Believe the total number that has come here
to molt is here & that it is
limited.

Finally returns show —————


Of course all we say is but ~~an~~ ^{an} ~~observation~~ ^{observation} because of very short time
available to us here;

We need to qualify all our remarks
by "at this time of the year."

It would appear that the ♀ crabs have passed
their molt & that male crabs are in
part at least undertaking their molt. *
? No time to fish crabs commercially
give them chance to spawn, molt &
mate?

* only specimens that we have seen so far (2)
two were males & only one that had
distinct indication (a la weymouth) was
a male & photod.

helmsides change for "crabs all over
boy" to concentrated in small place to
molt (molt is right by molt)
in case of ♀ is preparation for mating

At low tide the
seems to have to turn for
crabs does lay over a
inside riding on hind ^{inside} crabs
and end of 

Pay for bottles, transfer

Crab larvae, fine

Plant banks

water samples just the thing

6 halibut 10-30 lbs

Oct 3 recover a 90 lb halibut

lot of small crabs + females

great quantities of all kinds of
animal life, very little
mud.

Prove that they are sufficient to support a fishery

but that an outfit like this is not a paying prop.

~~with wings~~

~~120 x 85~~

deep

that was demonstrated '38

Head note 86
Grand up 115

65-70 of

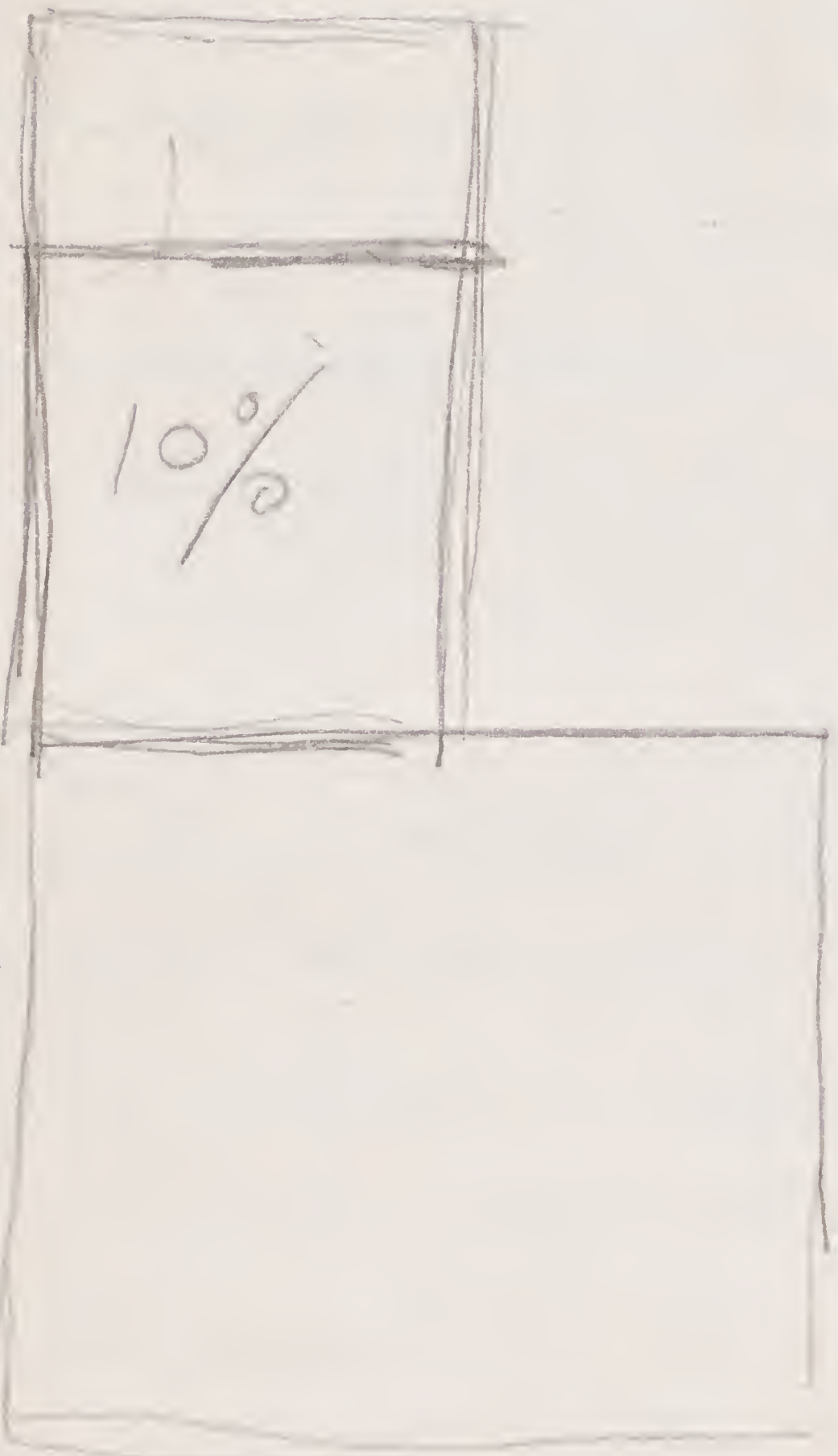
bag

chad

76 head
116 gross

2% of 115
Grand (full amount)
2% of 115 or 13
2% of 115 or 13

(Westamethy et al. 1950)
Westamethy et al. 1950



Recaptured Jagged Crabs

Date Recaptured	Date Jagged	Place Recaptured	Place Jagged	Jag. No.	Crab No.	Remarks
9/28/40	9/24/40	Came Bay Crab Hole	Came Bay 2nd. Anchorage (Mid N.)	52305 48105	98	Redumped by Andrade's Anchorage Lost 5 crabs in weight.
9/27/40	9/22/40	Came Bay Crab Hole	" "	52306 48106	103	Redumped by Andrade's
9/30/40	9/28/40	" "	" "	52386 48186	537	" at Crab Hole

Biol min. size

Kamohaka 85-90 mm (3.345 = 3.543)

hemmo 100-105 " (3.937 = 4.133)

Gill net crabs nearly all
males all but 2

hard get females that gill
net wouldn't?

Date Sept. 21, 194 Sta. Companion of meamymatz Location C.J.P. (Form E)

1. No.	A	B ^{W.H.} (92)	C (93)	D (94)	E
2. Sex					
3. Condition (hrd. sft. peeler)					
4. Weight					
5. Length	6.482 6.530	6.811 6.614 6.592	6.816 6.805 6.796	5.520 5.512 5.505	5.005 5.010 5.017
6. Width		8.148 8.123 8.154	8.154 8.215 8.136	6.731 6.785 6.760	5.901 5.901 5.912
7. Width abd.					
8. Lgth. 3rd merus.		6.733 6.713 6.753	6.966 6.957 6.988	5.072 5.026 5.026	4.857 4.846 4.824
10. Tag No.					
11. Growth on shell					
12. Food in mouth parts					
13. Stomach contents					.02
14. Parasites (gills also)					
15. Weight total eggs					
16. Eggs per unit		1.452 1.473 1.485	1.461 1.454 1.453	1.264 1.251 1.249	1.003 0.983 0.992
17. Major chela long		4.290 4.280 4.286	4.385 4.379 4.396	3.527 3.521 3.512	3.286 3.265 3.268
18. " high		2.405 2.399 2.388	2.404 2.396 2.398	1.952 1.945 1.951	1.690 1.694 1.716
19. " thick		1.682 1.709 1.701	1.719 1.715 1.727	1.361 1.366 1.383	1.125 1.138 1.130
20.					

Barnacles removed from right side of carapace

49
50

Date Sept. 21, 1941 Sta. Location (Form E)

1. No.	A	B (92)	C (93)	D (94)	E (95)	
2. Sex	♂	♂	♂	♂	♂	
3. Condition (hrd. sft. peeler)	feeble	feeble	very feeble	dead	dead	
4. Weight ^{dry} _{before immersion}	9.15	8.10	9.15	5.4	3.9 1/2	wt. at 9+ bet 9+10
5. Length	6.482	6.811	6.816	5.520	5.005	
6. Width	7.970	8.148	8.154	6.731	5.901	
7. Width abd.		15mm. clasp not cleaned off right side		left leg		
8. Lgth. 3rd merus.	6.354	6.733	6.966	5.072	4.857	
10. Tag No.	weight @ 91.30 a.m.	8 1/4 1/2	10/3			
11. Growth on shell		regained wt in 1 hr. or little more				
12. Food in mouth parts	nothing	9/4	10/8			
13. Stomach contents		B (92)	C (93)	D. (94)	E (95)	
14. Parasites (gills also)						
15. Weight total eggs						
16. Eggs per unit	1.456	1.452	1.461	1.264	1.003	
17. Major chela ^{long}	4.134	4.290	4.385	3.527	3.286	
18. " high	2.385	2.405	2.404	1.952	1.690	
19. " thick	1.671	1.682	1.719	1.361	1.125	
20.						

Date 8/12/28, 194. Sta. Pat's measurements of crabs left on deck Location (Form E)

1. No.	D (94)	E (75)	C (73)	B (62)	A	
2. Sex	♂	♂	♂	♂	♂	
3. Condition (hrd. sft. peeler)						
4. Weight	5. 4	3 9 1/2	10 1	8 14	9 9	
5. Length	5.512	5.010	6.805	6.614	6.530	
6. Width	6.785	5.901	8.215	8.123	8.077	
7. Width abd.						
8. Lgth. 3rd merus.	left side 5.026	4.846	6.957	6.713	6.375	
10. Tag No.						
11. Growth on shell						
12. Food in mouth parts						
13. Stomach contents						
14. Parasites (gills also)						
15. Weight total eggs						
16. Eggs per unit	1.251	0.983	1.454	1.476	1.460	
long 17. Major chela	3.521	3.265	4.379	4.280	4.138	
18. " high	1.945	1.694	2.396	2.399	2.352	
19. " thick	1.366	1.138	1.715	1.709	1.681	
20.						

Sat. ^(Sept.) 21-1940

At 9⁰⁰ a.m. Three largest crabs

showed signs of life viz voluntary movement of scaphognathite; these were weighed and measured twice at about hr. interval (check of measurement) and placed in fresh sea water dipped up by bucket in tank.

At 11⁰⁰ a.m. only the largest (#A) crab seemed to be the only one alive

Scaphognathite ^{seems to be} ~~is~~ the best indicator of life; these respiratory functions were in action

Sept.
Sat. 21 - 1940

only 2 or 3 were all
to the same

Canned lot of crabs near
all dead, at least 20 although
was slack + hint or else dried
up, many backs in surface
Probably lost
no weight in
water

Crabs kept on deck lost
(crab B) 10 oz and (crab C) 9 oz

regained (B) $4\frac{1}{2}$ oz and (C)

4 oz. in the hr. immersion

How much of this was more extreme
water?

How do dead crabs canned
after being kept in water compare
with those kept on deck + immersed
one hour (\pm) in water.

(there is no no. II
sheet —)

CANOE BAY

No. males	424
No. ovig. females	278
No. non-ovig. females	10
Sex not specified	1

Males

Average weight (424 spec. weighed)	8.82427 lb. (141.18632 oz.)
Average length (424 " measured)	6.10188 inches
Average width (419 spec. Measured)	7.30615 "

Ovig. females

Average weight (267 spec. weighed)	6.12219 lbs. (97.95505 oz.)
Average length (278 spec. measured)	5.45 inches
Average width (277 spec. measured)	6.04768 inches

Non-ovig. females

Average weight (10 spec. weighed)	1.489375 lb. (23.775 oz.)
Average length (10 spec. measured)	3.8261 inches
Average width (10 " ")	4.1185 "

Sex not specied (1 specimen)

Weight	10 lb. 6 oz.
Length	6.860 inches
Width	8.481 "

OLGA BAY (Paralithodes camtschaticus)

No. males 44
 No. ovig. females 66
 No. non-ovig. females 23

Males

No weights

Av. length (44 specimens measured) 4.5281 inches

Av. width (44 " ") 5.27336 "

Ovig. females

No weights

Av. Length (66 specimens measured) 4.58877 inches

Av. width (66 " ") 5.09845 "

Non-ovig. females

No weights

Av. length (23 specimens measured) 3.9369 inches

Av. width (23 " ") 4.5142 "

OLGA BAY (Paralithodes platypus)

No. males.	31
No. ovig. females.	7
No. non-ovig. females.	3

Males

No weights

Average length (31 spec. measured) 5.31145 inches

Average width (31 " ") 6.814645 "

Ovig. females

No weights

Average length (7 spec. measured) 4.5051 inches

Average width (7 " ") 4.959 "

Non-ovig. females

No weights

Average length (3 spec. measured) 3.448 inches

Average width (3 " ") 3.842 "

SHELIKOF STRAITS

No. males	26
No. ovig. females	9
No. non-ovig. females	1
Sex not indicated	1

Males

Average weight (25 specimens weighed)	12.305 lb. (196.88 oz.)
Average length (26 specimens measured)	7.08338 inches
Average width (26 " ")	8.5995 "

Ovig. females

Average weight (5 specimens weighed)	5.85625 lb. (93.7 oz.)
Average length (9 specimens measured)	6.0607 inches
Average width (9 " ")	6.7144 "

Non-ovig. female (1 spec.)

Not weighed.

Length	4.728 inches
Width	5.213 "

Sex not specified (1 spec.)

Weight	15 lbs. 5 oz.
Length	9.619 inches
Width	9.656 "

Biological Supplies for U.S.B.F. King Crab Investigation
1940

No.	Equipment	Amount	Source
	<u>Collecting</u>		
1.	plankton nets, #6	3	Bailey
2.	line for same		"
3.	dip nets		gear man?
4.	extra fine mesh for dip nets		" "
5.	Bottom sampler (bulldog)	1	Schmitt
6.	water samplers	6	Bailey?
7.	sieves		Schmitt
8.	collecting chests 8 Oz. bottles.	3	"
9.	canvas bags for dried bot- tom samples.	1 doz.	
10.	cyanide bottle	1	Schmitt
11.	light weight pails, cheap make	1 doz.	
	<u>Recording</u>		
12.	calipers, very large, dial calibrations	4	
13.	5x11 record books	2	
14.	3x5 memo books	2	
15.	gum labels, medium about 2 1/2 x 1 1/2	2 doz.	
16.	printed labels identi- fying cruise	2,000	
17.	tin tags		
18.	extra bag needles	1 box	
19.	manila tags		
20.	yard stick, inches and meters	2	
21.	small steel tape	3	
22.	Thermometers	12	Bailey
23.	Higgins internal ink	3 bottles	
24.	tagging equipment	2 doz.	
	<u>Preserving</u>		
25.	alcohol	50 gal. drum, Navy, Seattle	
25.	formalin	20 1 lb. bottles	
26.	chest gallon jars	1	Schmitt
27.	1 quart, wide-mouth, whole fruit, jars.	6 doz.	"
28.	no. 2 vials with corks	2 gross	"
29.	heating and drying equipment.		
30.	citrate magnesia bottles	1 gross	Bailey
31.	8 gal. tanks filled with	2	Schmitt
32.	16 gal. tanks alcohol	3	"

besides drum

Biological Supplies for U.S.B.F. King Crab Investigation
1940

No.	Equipment Collecting	Amount	Source
1.	plankton nets, #6	3	Bailey
2.	line for same		"
3.	dip nets		gear man?
4.	extra fine mesh for dip nets		" "
5.	Bottom sampler (bulldog)	1	Schmitt
6.	water samplers	6	Bailey?
7.	sieves		Schmitt
8.	collecting chests 8 Oz. bottles.	3	"
9.	canvas bags for dried bot- tom samples.	1 doz.	
10.	cyanide bottle	1	Schmitt
11.	light weight pails, cheap make	1 doz.	
	<u>Recording</u>		
12.	calipers, very large, dial calibrations	4	
13.	8x11 record books	2	
14.	3x5 memo books	2	
15.	gum labels, medium about 2 1/2" x 1 1/2"	2 doz.	
16.	printed labels identi- fying cruise	2,000	
17.	tin tags		
18.	extra bag needles	1/2 box	
19.	manila tags		
20.	yard stick, inches and meters	2	
21.	small steel tape	3	
22.	Thermometers	12	Bailey
23.	Higgins internal ink	3 bottles	
24.	tagging equipment		
	<u>Preserving</u>		
25.	alcohol	50 gal. drum, Navy, Seattle	
25.	formalin	20 1 lb. bottles	
26.	chest gallon jars	1	Schmitt
27.	1 quart, wide-mouth, whole fruit, jars.	6 doz.	"
28.	no. 2 vials with corks	2 gross	"
29.	heating and drying equipment.		
30.	citrate magnesia bottles	1 gross	Bailey
31.	8 gal. tanks filled with	2	Schmitt
32.	16 gal. tanks alcohol	3	"
	besides drum		

BIOLOGICAL SUPPLIES

- Bottom sampler 2 Schmitt
- 1 drum 5 gal. alcohol from Navy
- 10 1/2 lb. formalin
- 3 ✓ plankton nets #6
- 0 dredge
- ✓ line for same
- 12 ✓ thermometer 6 doz. wide mouth
- 1 chest 1 doz. mason jars: quarts, pints, 1/2 pints
- 4 gross vials & corks Schmitt
- microscope -- binocular
- 1 Box slides, cover glasses, mounting equipment
- tagging equipment
- ✓ calipers 4 pair 1 large dial calibration
- ✓ dip-net 1 dozen man.
- log & memoranda books 2 ✓ 8 1/2 x 11 Record Books.
- marine charts (free through Seattle Coast & Geodetic Survey Office)
- canvass sacks for bottom samples filled with 2, 8 gal. alcohol 3, 16 gal. Schmitt
- dissecting sets
- forceps including extra large set Schmitt 3
- gum labels
- ✓ parchment paper Printed labels. ident. course.
- ✓ Tin tags 1/2 doz. bag needles
- ✓ drawing outfit
- ✓ marilla
- ✓ shipping tags
- ✓ aquarium -- 10 gallon
- ✓ watch glass
- ✓ some type of heating & drying equipment
- ✓ 2 yard stick -- inches & meters
- ✓ 3 steel cloth tape small
- ✓ 1 doz. shoes Schmitt
- geological hammer
- pinch bar Tools.
- White enamel pans.
- hand brace
- Cyanide bottle
- Schmitt CaCO3
- Chloride of lime
- medical supplies
- Citrate Magnesia bottles
- Water Samples
- 1 for every sample
- 1 gross
- arrange with T. Thompson
- at Seattle or Seattle also
- do Titration.
- 3x5 memo Book
- collecting chests
- 80 8oz. bottles per chest
- 1 lb. Bottle Thymol
- 10 lbs. Epsom Salts
- 3 Hypodermics fresh
- injective 12 extra needles
- 4 galvanized iron
- wash tubs not
- 1 doz. light. nails light

1 Alcolometer. but alcohol.

2 bolts chere cloth.

Table twine (won't gear man have
plenty of chord & twine.

Higgins internal int. 4 bottles

2 doz. No. 2.

Small shears. 2 pair.

Wrapping paper.

Bottom sampler.

(Bulldog sampler) Schmitt.

Aluminum Kettle.

Boots?

2 flash lights.

1 doz. pipette

weights for tow out. (each weight
gear man).



Biological Supplies, King Crab Investigation
1940

No.	Equipment	Amount	Source
<u>Preserving cont.</u>			
33.	thymol	$\frac{1}{2}$ lb.	
34.	opson salts	10 lbs.	
35.	hyperdermics for injecting fish	3	Hilderbrand?
36.	extra needles for hyperdermics.	12	
37.	alcoholmeter		
38.	cheese cloth	2 bolts	
<u>Containers</u>			
39.	aquarium 10 gal.	1	
40.	watch glasses	6	
41.	galvanized iron wash tubs (nest)	4	
42.	kettle for boiling specimens.	1	
43.	white enamel pans		Schmitt
<u>Miscellaneous</u>			
44.	cable twine		gear man
45.	geological hammer	1	Schmitt
46.	pinch bar	1	"
47.	hand lenses		
48.	Binocular microscope	1	Schmitt
49.	forceps 12"	12	
50.	dissecting set	2	
51.	first aid kit.		
52.	chloride of lime		
53.	small shears	2 pr.	
54.	wrapping paper		
55.	pipettes	1 doz.	
56.	weights for tow net sash weights?		
57.	flash lights	2	
58.	extra batteries	1 doz.	
59.	rubber boots	2 pr.	Bureau of Fish.

Biological Supplies

No.	Equipment	Amount	Source
1.	Plankton nets	3	B.F.
2.	line for same		"
3.	Dip nets		Geat man?
4.	extra fine mesh		

Biological Supplies, King Crab Investigation
1940

No.	Equipment	Amount	Source
	<u>Preserving cont.</u>		
33.	thymol	$\frac{1}{2}$ lb.	
34.	epson salts	10 lbs.	
35.	hyperdermics for injecting fish	3	Hilderbrand?
36.	extra needles for hyperdermics.	12	
37.	alcoholmeter		
38.	cheese cloth	2 bolts	
	<u>Containers</u>		
39.	aquarium 16 gal.	1	
40.	watch glasses	6	
41.	galvanized iron wash tubs (nest)	4	
42.	kettle for boiling specimens.	1	
43.	white enamel pans		Schmitt
	<u>Miscellaneous</u>		
44.	cable twine		gear man
45.	geological hammer	1	Schmitt
46.	pinch bar	1	"
47.	hand lenses		
48.	Binocular microscope	1	Schmitt
49.	forceps 12"	12	
50.	dissecting set	2	
51.	first aid kit.		
52.	chloride of lime		
53.	small shears	2 pr.	
54.	wrapping paper		
55.	pipettes	1 doz.	
56.	weights for tow net sash weights?		
57.	flash lights	2	
58.	extra batteries	1 doz.	
59.	rubber boots	2 pr.	Bureau of Fish.

Biological Supplies

no.	Equipment	Amount	Source
1.	Plankton nets. 16	3	Bailey, B.F.
2.	1st		

Mr. Nelson's Sketch of Crab Traps used
in Halibut Cove.





Campbell Street 170
 Richmond 25 miles

Form A

FISH AND WILDLIFE SERVICE

Date _____

Report No. _____

CRAB BOAT REPORT

Time boat left _____ Time fishing started _____ Time catch landed _____

Boat _____ Captain _____ Weather (Wind _____ (Sky _____ Air temp _____
(Water _____ Barometer _____

Depth _____ Water temperature (1) Surface _____ (2) below _____ Water sample No. _____

Area fished _____

Type of gear _____ Amount gear used _____

*Degree of fishing effort _____

Catch (per drag, shackle of net, or trap) _____ Total catch _____

Condition of catch on delivery at cannery _____

Destruction of young crabs, number, sizes _____

" " fish, kinds, number, sizes _____

" " other forms of bottom life _____

Canning code for day _____

Examination of pack _____

**Remarks

* i.e. Number of drags if trawling. Number of pots or tangle nets lifted, etc.
**Should include general description of relative abundance of different forms of
bottom life, including algae.

DETAILED FISHING REPORT

Date _____ Type gear _____

[illegible]

(Form D)

[illegible]

Date _____, 194____. Sta. _____ Location _____ (Form E)

1. No.						
2. Sex						
3. Condition (hrd.sft.peeler)						
4. Weight						
5. Length						
6. Width						
7. Width abd.						
8. Lgth. 3rd merus.						
9. <i>...</i>						
10. Tag No.						
11. Growth on shell						
12. Food in mouth parts						
13. Stomach contents						
14. Parasites (gills also)						
15. Weight total eggs						
16. Eggs per unit						
17. Major chela long						
18. " high						
19. " thick						
20.						

1940

Aug 28 Calm Cloudy & overcast

Sept. 8
8:30

Cape Ohman St
W. S. W. 30 miles chills & haze

Sept. 9.

5:30 a. 12:30 p.
W 25-15 mi.
Clear mod. swell

Sept. 10

12:30 a.

(W. Lt) + mod. sea.

12:30 p.

(S.W.) overcast making from S.W.

Wind has been shifting today from west to S.S.W. and back to S.W. and has had considerable force.

Sept. 11

12:30 a.

Lt. S.W. running to W.

12:30 p.

N.N.W. 35 Very choppy sea

9:05

Cape Chiricahua sighted

10:30 p.

Saw later in.
Lt. N.N.W. + Clear.

Five moonlight weather tonight moonlit sea with S.E. N.N.W. breeze

Sept. 12

12:30 a.

Ugashad Id @. Breeze.

12:33

N.N.W. 0 Clear +

5:45

Tugidak Id @. S.W. 10 mi. Clear + Breeze

7:18

S.S.W. 30 mi. making with rain

S.S.W. 25 mi. rain + wind

Shipped Large Sea over

Port quarter + back out

Port Out from glass

Turned back to 1.33 N 1/2 E.

(SSE 45) Heavy sea.

Running toward Shelikof St.

Sept 13.
2:00 a.m.

Turned back on course
S $\frac{1}{2}$ W. slow bell Fresh SSE

545 a. Still clear. Bar. 29:60
SW swell Sr. W. breeze.

830 a. Wind making up but very
quite fresh with heavy
swell making choppy over
sea. Turned back for
Cape Akute Fresh W +
S. W. swell

11:22 p.m.

Smidi d. l. (a)
Fresh W + clear
bright moonlight & nice
weather.

Sept 14

730 a.m. Fresh. S. S. E + Rain

1138 a. Kureanoff Pt.
S. S. E. 50 mi. S. E. gale +
Rain.

(37)

some question as exact
location. Wind veers
+ heavy S. S. E. gale
with wind veering to W
Baro. 29:50.

Turned back for
Kureanoff Pt. gale
of wind from W. S. W. at
approx. 50 a 60 miles
per hour.

330
p.m.

Anchored behind the
reef at Pt. very strong
waves out off the
land. The swell the
bay with terrific force
the anchor holds.

Sept. 15

7⁰⁰ a.m. Wind still flat heavy
but moderated somewhat
8⁰⁰ have h. & departed for
Kupearuk Is. Is.

9 a.m. Arr. in Kupearuk Abr
anchored in 10 fms.
in west end of Bay
Still strong winds
shifting to W. S.W. + N.W.
+ Back.

Sept. 16 Still storm bound in
Kupearuk Harbor

12 noon Bar. 29:92.

3 p.m. 29:65

Wind hauled today
from W.N.W. to S.S.W.
with rain.

7⁰⁰ a.m. Fresh SSW wind
Bar. 29:92

10⁰⁵ Under way heavy sea
Squall & Rain Bar.
29:10

12²⁰ Kupearuk Pt. Q.
A.G. ~~Again~~ S.S.W. overcast
Bar. 28:99.

~~13⁰⁰~~
7¹⁰ p.m. Arr. Squas Is.
S.S.W. 30 miles
Bar. 29⁰⁰

Sept. 18

at Squas Is.
Weather has been bad
miserable today very heavy W.N.W.
wind & some rain. The glass is
steady rising.

Sept. 19

7¹⁰ a. departed Squamish bls.
heavy W.N.W. Bar.
29:46

12³⁰ p.m. Seal Cape str. Fresh
W.N.W. 29:43.

4⁵⁰ a.m. Canoe Bay.

Sept. 20 Canoe Bay
Blowing a gale N.E.
Bar. 29:92.

Sept. 21 Str. S.E. & rain. all
day with low glass
(*) Nelson + Schmitt. 2 drags. 100 crabs
accrd. 150-200.

Sept. 22 Weather very changeable
Today with low Bar.
glass recd. a low
28:74 at 11.00 a.m.
(3 drags 1=118 crabs
2=0
3=7
125

Sept. 23

8 a.m.

Bar. 29:15

4 sets = 89 crabs.

(1) = 25 min.

(2) = 20 min.

(3) = 20 min.

1230

a.m.

unloaded crabs.

3 sets = 159 crabs.

net in last haul in N.W.

Str. Bay.

Bar 29:40

Sept. 24
8:25 a.

Overcast. ST. h. w. Bar. 29:69.
1st net. 30 min. 3 1/2 doz crabs.
2nd. 30. 1 doz.
3d. 30 min. 10
4th 1 hr 25 min. ^{very} few crabs.

1:50 p.m. Set. Sudeley for Parloff Bay.

① Out. 2:50 p. 5 mi.
S.W. Entrance covered
S.S.W. 1 hr. got nothing

② N.N.W. 1 hr. got
nothing

6:40 p.

3

Bar 29:88.

Sept.

2:25
7:10 a.

Parloff Bay Nelson

Bar. 29:98.

① 7:55 no crabs.

② 1:02 " "

③ 1:40 " "

④ 4:10 " " Covered

2 hrs. + 20 mins.

no crabs.

attn. Sudeley Bar.

30:00

Sept. 26

7:40

Went high tide clear.

~~head~~ Bar. 29:98.

① 42 min. 62 ♀ crabs
1 ♂ flounder.

② 50 min. 102 large ♂
crabs.

③ 50 min.

2 ♂ flounder.
1/2 doz crabs

1:20

attn. Sudeley

1:20

④ Parloff Bay.

35 min. no crabs

6:40

am. Sudeley clear. "Calm" Bar. 29.94/

Did lot of
running
around at
Nelson's
behest

Sept. 27. Cane Bay
Sighr. & Fresh. W.N.W.
8 00 a. Wind. Sky overcast.
Bar. 29:88.

8 20 ① net mugged ^S ~~S~~ crabs

9 30 ② 45 min. 36 crabs.

10 40 ③ 28 min. 18 crabs.

11 25 ④ 45 min. 48 crabs.

12 40 ⑤ 50 min. 74 crabs.

1 45 p. ret. Sunday Embroid
Bar. 29:82

Fresh W.N.W. wind.

2 45 p. ⑥ 45 min. 66 large crabs.

⑦ 55 min. 98 crabs.
+ lots of 2 each

5 25 ⑧ 40 min. 28 crabs.

Total for today 385 crabs.

6 28 ret'd in day.

still sr. & mod. W.N.W.

wind. Bar. 29:88

Sept. 28 weather cloudy occ. shower
mod. W.N.W. wind. Bar.
30:00

Cane Bay

① 40 min 55 crabs.

② 40 " 92 crabs

③ — 78 crabs.

④ 55 min

rotted net

but got 114 crabs.

1 50 p.m. ret. & mod. net to
mod. W.N.W. occ.
Bar. 30:03. showers

Composition

Sept 2/9

Sept. 30

4²⁰ a.

Called by radio Heavy S.E.
Gale & Rain.

On moving away from
Sundays & anchor
got in sand spit.

8¹⁵ a.

Still gale - S.E. & Rain
Bar. 29:60
Anchored across Bay.

9⁵⁰ a.

Still heavy S.E. Gale
Bar. 29:60

1⁴⁸ p.

(1) 40 min. 20 crabs

3¹⁰

(2) 40 min. 3 crabs

4¹⁰

(3) strong wind could not
hold net on spot.

1 min 25 crabs
Heavy S.S.E.

5²⁰

Very strong S.S.E. Wind
Bar. 29:78

Oct. 1.
7⁰⁰

Still fresh S.S.E. wind.
Having too much for work.
Baro. 29.72

8⁵⁰

① 1 hr. — 1/2 doz crabs
(net got tangled)

10³⁰

② 30 min. = 2 crabs.
still fresh breeze

11²⁰ a.

③ 40 min. = no crabs.
wind back to W.

12¹⁵ p.

④ 45 min. = 29 crabs.

Wind backed to W.N.W.

1²⁵

⑤ 40 min. = 8 crabs
(1 Tom crab)

50 min. nearly net.

2⁵⁵

⑥ 1 hr. = 6 crabs.

4²⁰

⑦ 1 hr. = 140 crabs.

6⁰⁰

am. Sandalwood.

8⁰⁵ p.

fresh west wind
sky overcast.

Oct. 2
7:30 a.
7:53

Bar. 30:10

(1) min = 63 crabs.
Shore westerly Breeze

9:10

(2) 25 min = 6 crabs

10:00

(3) 50 min. = 12 crabs

11:05

(4) ? min = 25 crabs

(4) = 20 min + 2 crabs

12:45

(5) min = 14 crabs
no much catch.

2:10

alongside Dandelays
Shy over cast Bar. 30:10

2:55

thickened wh buoy key.

3:03

(6) 1 hr. = 25 crabs

4:25

(7) 1 hr. = 18 crabs

5:50

ret'd to Dandelays.

Shy over cast Bar. 30:08
Str. W.

Oct. 3
7:50

Str. E. Breeze Bar.
Canoe Bay 29:84

8:20

(1) 1 hr. = 11 crabs.

9:45

(2) 40 min. = 3 crabs

10:45

(3) 45. = 65 crabs

12:05

(4) 45. (stage) min. = 233 crabs

1:40

(5) 50 min. = 88 crabs.

3:10

(6) 55 min. = 57 crabs.

4:25

(7) 40 min = 115 crabs.

5:45

ret'd Dandelays

Str. N.W. Bar.

29:78.

Oct. 4 Landed on land all
forenoon.
12⁵⁵ p. left Smedley to
meet mail Penguin
bird W.N.W. 30 mins
shy, willi wans.
5⁴⁰ anchored behind
cape. (N.W. 20 mi.)
Clear mod. N.W.
Bar. 30:08

Oct. 5 stopped alongside
3 a.m. Penguin.
Clear. Calm Bar. 29:90

8⁰⁰ a. (S. 10 mi.) shy wewans.

12³⁰ left Holger for Meads Bay.
Heavy S.E. Rain. Bar. 29:64.

1⁴⁵ Turned back for Holger
Heavy S.E. + Rain

3³⁰ [35 miles]
anchored in Holger.

11³⁰ p. [Had to move]

12²⁰ a.m. Anchored center of
Holger Wh.
mod to fresh h.w. 29:18.

8.02 a left Smedley with
Tuben for fish.

(X) 1³⁰ p. (1) off Belkoshi St.
net caught

2¹⁰ (2) Reser.

3¹⁰ picked up net and

3³⁵ (3) few pole + flounder.
4³⁵ (4) net + flounder 2 cod 1 halibut

6²⁰ St. S.E. some rain
Bar. 28:98.

Oct. 7.

6¹⁵

Weather now good.
SE 10 mi Rain Bar. 28:93

10¹⁰
11⁰

① 1 hr. absolutely nothing
in net.

11³⁸
12³⁸

② few cod + sole + other
crab.

1¹⁵-2¹⁵

③ 1500 lbs. sole + 1 ^{shide} crab.

2⁴⁵
3⁴⁵

④ few sole + crab.

4¹⁰

Left for Placoma Bay.
Lt. E.N.E. + clear

5³⁰

Arrived Head of Placoma
Bay. Sr. N. Breeze +
clear. Bar. 29:05

Oct. 8

Volcano Bay

7^{am}

weather clear. Day slight
overcast. Cal. 29:28.

7⁵³
8³⁰

(1)

{ 1000 lb. sole
1 doz dungeness
crabs.

8⁵⁰
9³⁰

(2)

{ 1000 lb. sole
3-4 small
cod.

10⁰⁰
11⁰⁰

(3)

1500 lb. sole
3 doz dungeness

11²⁰
12⁴⁰

(4)

200-800 lb
sole

12⁰⁰

→ mod. N.W. + clear. ←

1³⁰

(5)

nothing in
net.

2¹⁰

2⁴⁰

(6)

got nothing

3⁴⁰

(7)

St. N.W. + cloudy

got nothing

3⁵³

4³⁰

(8)

net mugged. - nothing

4⁴⁵
5⁰⁰

6⁰⁰ p.

am. Sudden

mod. N.W. Bar. 29:38.

Oct. 9.

7⁴⁰ a.m.

(N.W. 10 mi)

clear

Bar. 29:50

11⁵⁰

N.W. 45 miles Rain

although

too much wind to fish
in Cold Bay

1³⁰

Am. King Core

Very Heavy N.W.

Bar. 29:59

Oct. 10

7²⁵ a. L.P.R. King Cove. (N.W. 25 mi)
Bar. 29:71

9³⁰
10¹⁵

(1) Seaward Wh.
5-600 lb. sole + flounder

10³⁰
11⁴⁰

(2) Fresh N.W. Breeze
Leeward Wh.
1 Ton flounder + sole
few nice cod. 1 large King cat

12⁰⁰
1⁰⁰

(3) 1 Ton flounder
+ sole

12⁰⁰
2⁰⁰

(4) 1000-1200 lb flounder
+ sole

2¹⁵

Left for cold storage

3²⁸
4¹⁰

(5) net mended 1 baby
King cat

6⁰⁰
6⁰⁰

(6) 200-300 lb. sole +
flounder 1 large King
cat.

7¹⁰

anchored Seaward Wh.
Clear + calm 29:72

Oct. 11.

7⁰⁰

weather S.E. Wind
+ Rain (SE 15 mi) 29:45

8⁴⁵
9⁴⁵

(1) 1600 lb. large King cat

10⁰⁰
11⁰⁰

(2) few sole + 2 cod
Very fresh S.E.

11³⁵

(3) 1 Ton flounder + sole

12³⁵

quite to go Seaward
Wh. became fresh S.E.
Bar. 29:23.

12⁵⁰

2⁰⁰
P.M.

S.E. gale strong
2 anchors
hull was out 29:12

Oct. 12

700

Weather moderate
S. Ocean & cloudy
Bar. 29.12

1157

off Annan's Id.
Heavy N.W. wind &
swell.

244

Thin P.V. can buoy
abandon. Heavy N.W. & Rain

655

Shaggy Id.
S. H.W. 29:30

Oct. 13

8.05

Had to wait for
gill nets B. 29.136
NNW 25 mi.

1200

Mon. off Gull Id.
Fresh. N.W. & Clear

135

Anchored west end
Cane Bay
very strong N.W.
wind & rain B. 29.134

Oct. 14

900

Still fresh. N.W. wind
strong squalls B. 29.140

215

after water samples
& gill net anchored
in west end Bay
Fresh. N.W. with
rain squalls (some hail)
Bar. 29.144

Weather. Oct. 13

Oct. 13 As soon as we passed Black Point, Kithuto's placid sea became white [capped] ed swells due to N.W. wind blowing down the Bay [Cold] ~~Except~~ Except for clear sunny day might have been termed angry.

Oct. 13 Wind chilled in rigging good & land clear & crisp, but windy as H. —
Pavlof Bay / Snow line much farther down on mountain sides; took 6 pictures of snow blowing over deck, took for first time.

Oct. 14 Clear & cloudy by turns patches of blue (sun), the clouds again; wind & hail, blustery, cold! (Put on woolies this forenoon)

Oct. 22 — Sunday Oct. 20 Stern was stopped bound in Alitok; 96 mi. per hour wind outside; tonight we came over & rolled us

Oct. 23 Cold starlight night, light N.W. wind

Weather:

Oct. 25 I asked Teacher at Sand Pt. how much longer this glorious weather would last, "I believe hours," he laughed, "the longer it lasts the worse will be the weather that follows." "Last year from November to February had three months of good weather. This is exceptional however."

weather

Write Coker for weather ^{+ temp} summary for
Oct. and Nov.

Sept =

Days of gale	12
Days of wind	3
Days of slight wind	10
Days of no wind	6
Days of rain	15
Days of no rain	15
Hours of sunshine	22

Temp. =

45° - 70°
only 4 times
above 50°F

Oct. 15

7:00

Fresh. N.W. wind & sky overcast
Bar. 29:60

Picked up gill nets
only second net had
King crab + only one.

9:00

9:55

(1) 21 King crabs
quite a few spiders

10:20
11:15

(2) Lots of spiders
lots of baby Kings

11:40 a

12:30 p

(3) 16 King crabs
lots of spiders

1:00

2:15 p

(4) 1/2 doz King + some
spiders.

Fresh N.W.B. 29:54

7:10

p.m. almost smother
in foggy air. Fresh. N.W.
+ Clear Bar. 29:50.

Oct. 16

7:00

Weather clear + Fresh N.W.
Bar. 29:38

1 p.m.

2:00 p

(1) 6-700 lbs sole +
flounder.

Fresh. N.W. + Clear.
2 gill nets out 1 cold B + Len. Hbr.
anchored toward Bk.
St. N.W. + Clear Bar. 29:45.

6:30

Oct. 17

Weather Fresh. N.W.
squalls + Rain 29:46

8:45

10:00

(1) 1000 lbs flounder + sole 1 King

10:50

11:50

(2) few sole 1 King crab.

12:15

1:35

(3) just a few flounder

Picked up gill nets
just 3 spiders 1 King [couple
shells]
second 1 King 9 shales

Oct. 13
Credited.

4 35 p.

Sett for Ibsala
St. N.W. + clear

9 00 p.

Anchored in 20 fms.
3 miles S. of Kenmore
Head. Bar. 29.62.
St. N.W. + clear

Oct. 14

7 00

Breezy strong N.W.
Squalls Bar. 29.68

7 55

8 55

① S. to small bulwer
+ rite

9 20

11 20

② 1500-1600 ^{lb} rite
very strong N.W.

12 00

1 05

③ some rite + gladder
heavy N.W.

11 30

2 30

④ 500 ^{lb} rite

2 55

9 40

fresh N.W. + cloudy
an. alongside Sundeby
at Holgeri St. N.W. B. 29.58

Oct. 19.

8 35

Sett. Holgeri fresh N.W.
St. snow

12 41

very strong N.W.

5 25

at square Rth.
fresh N.W.
Bar. 29.40

Oct. 21 / Sept. Sunday Hdr.
 7¹⁰ Clear + Calm Bar. 29.60
 12⁰⁰ Am. mist Hdr.
 Sight N.W. + Clear
 2¹⁰ Sause Bay. Sight N.W. + Clear.
 3¹⁰ (1) 1500 lb. flounder, hung
 upon rock.
 3²⁰ (2) net snagged, picked
 up at once
 4³⁵ } (3) Bay of mist Hdr.
 5¹⁰ } nothing but scrub.
 5³⁰ set gill nets
 5⁴⁰ Alongside Sundeley
 Clear Calm Bar. 29.50

Oct. 22
 7⁰⁰ breather mod. N.W. + Clear
 Bar. 29.45
 7⁴⁰ Sept mist Hdr. St. E mod
 N.W. + Clear.
 9⁰⁰ (1) net snagged. got out
 9²⁰ }
 10⁰⁰ (2) net snagged north
 11⁰⁰ } Had to quit net low
 too badly to work.
 11⁵ Am. Sundeley mist Hdr.
 7⁵⁵ p. Sept mist mod N.W. + Clear.
 12¹⁰ a Contacted Stern in
 Korovin Bay
 Fresh N.W. + Clear
 3³⁵ a Am. Sundeley fresh N.W. + Clear

Oct. 22

3 ³⁵₋ p.

Surr mist Bh.

Clear + Calm, 29:50

9 ³⁵₋ p.

Anchored - Palace

Bay, Shepovuk

Clear + Calm very light

N. Bar. 29:30

Oct. 24

Weather Light N by

breeze + clear

Bar. 29:42

7 ⁴⁵₋

8 ⁵⁰₋

① not many few flukes
+ 2 red + 2 black

9 ¹⁰₋

10 ⁴⁰₋

② few red + red
mutter.

11 ⁰⁰₋

11 ⁴⁰₋

③ 15 red mutter
red + black 2
black red.

12 ¹⁰₋

12 ³⁵₋

④ net snagged.
had hole
repaired

1 ⁵⁰₋

2 ⁰⁵₋

⑤ net snagged
had to repair

5 ⁰⁰₋

6 ⁰⁰₋

⑥ Lots of red mutter
no crabs.

7 ⁰⁸₋

Anchored head of
Bay 25 fms.

cloudy + St. W.

Breeze Bar. 29:50

Oct.
25

7⁰⁰

7³⁰

Weather Clear + Cal
quite Cold Bar. 29:46

Surr. Stationed
Clear + Cal

11⁴⁰

12³⁰

① net mugged
nothing but scrap
in net.

124

Arr. Sand Pt for water
Clear + St. N.E.

440

5⁵⁵

② net mugged
nothing but bottom
scraps.
for Sand Pt. Sh. + Egg Id

630

alongside dock Square
Is. Bar. 29:20
St. N.W. + Clear

Oct 26

7⁴⁷

8¹⁰

8⁴⁵

Shy over cur + fresh
N.W. Bar. 28:94
Surr Square Is.

① net mugged.
nothing but Bottom scrap

9⁰⁰

left for Square Is.
to repair net

520

Surr Square Is. after
load oil
Heavy N.W. Bar. 28:60
+ cloudy

10¹⁵

Arr. alongside Insular
Heavy W.N.W. Strong squalls
Bar. 29:60.

If believed ants have
could not me hand
why not gill net I
had said had. then
to would have to say
them as insect. fish
trap as I was
through rowing.

Oct. 27

800 a.m.

weather =

sky overcast S.W.

Bar. 28.85

840

moved out pick up

gill net

net in the

[couple shales &

bottom rocks, one

shale eaten by amph-

trils]

1015

a.m.

anchored in the

cloudy S.W. Rain

on the

Oct. 28

4 a.m.

weather clear

calm B. 29.22

630 a.

met Sudeley

S.W. N.W. & clear

745 a

picked up Schmitt

left for Cable Rk.

1215 p.

①

ferred cool

Sunbur = grass

120 p.

thinning

clear & calm

Bar. 29.20

700

p.m.

anchored in the

Sania Bay off Village

clear & calm. very

still Bar. 29.22

Oct. 29 Bar. 29:32
7:00 a.m. Weather Clear & Calm
7:50 left. Interloma Bay.

10:40 } ① 65 fms. her 30m
11:40 } 1 dog fish

12:00 left for Cattle Bay
Clear & Cal.
repaired net
Cattle Bay.

3:45 } ② ferned cod 1 spider
4:35 } crab.

5:25 } ② in N.W. arm
6:00 } Cattle Bay.
flounder, cod & halibut

6:30 Underway for Albatos.
Clear & Cal Bar. 29:40

~~Oct. 30~~
~~12:20 p.m. Clear & Cal~~
~~6:00 a.m. started making up from N.W. - quit here~~
~~7:00 a.m. Drove to secured~~
~~gear & hook doves~~

7:35 Underway Heavy N.W.W.

9:20 a.m. Very Heavy N.W.
did do do to 10:55

1:20 p.m. C.C. for Cape Alifan
wind force moderate
1:50 mod N.W. & Cloudy

Sledge notes - ①

Oct. 10 - 2nd haul. $1\frac{1}{2}$ tons flounder

Cold Bay. 25 fms deep at end.

half of haul stumpy flounder.

also a few lemon sole; some purple
2-3 Chionoecetes; no anemones. starfish

2nd haul

Oct. 10 Finding of large crab due to the
Cold Bay of attacking Bay. was surprised that
soft mud could carry king crabs.

Oct. 10 first haul, some stumpy flounder +

Cold Bay

some very large herring.

1st haul. 17 ♀ 8 ♂ Chionoecetes 1st haul

Oct. 11 1st. Haul up near head Cold Bay.

one 8-9 inch King Crab.

800-900 - ca 9 inch yellow tail sole in total

catch about as nearly a ton of fish.

15-16-1700 lbs fish.

marketable grey sole, yellow sole, some flounder.
bills of haul yellow tail.

Oct. 11 2nd haul got very little

25-11 fms at end of bottom sample in 11 fms. at end of haul
few flounder of kind taken before.

3d haul started in 15 fms.

Oct. 11 Picked up 1st ^{haul} net + set second in 15 mins

Rain and wind squall came up in about 15 mins
right at 11 o'clock so hauled net in a jiffy.

The Dye Notes (2)

Oct. 15.

65-40 (=2nd haul) one lemon sole
42 ♂ 4 ♀ Chionoecetes (ca. 50 ♂, 8-10 ♀ all told)

66-40 Half doz lemon sole

Oct. 17. 1 net first haul # 69

Oct. 18 #75 got quite a number of small rubber
feet in chum; very much like haul #
17th, very small haul. Lemon says
"clean bottom."

Oct. 24. 2 ³⁰p.m. net came up badly torn
had to be mended, drifted about while
drying it.
Small hauls this day; deepest one was
a red snapper haul

Oct. 24 wires (crossed) angled; fixed by 5 p.m.

Oct. 24 (Cove Bay) 7.28 a.m. @ 13 fms. Main 9.38 and 8.8.
Upper end

Oct. 31. not much over 100 lbs in any haul
this day up to 2 p.m., mostly less than
that

King crabs; records of ①

was fishing Dungeness crabs here

Nov. 2

Picked up King crabs on shore of Glacier Bay in Jan + Feb. (Frank Nov. 2)
[also April 2, in 8-9 hrs, thought he was late for King crabs, west side of Glacier Bay (millions of spider crabs)]

Day St. bet. Auntie Star Point Harbor
20 large crabs for Dungeness, got couple of dozen King crabs. (Frank. Nov. 2)

Sept. 11
Diary

Stalker, old experienced (wise) Alaska country man, now captain at Squaw Hbr. says about Kodiak crabs are known to be in whole ^(crabs galore) Passage, Chen Creek, bet. Whale Pass and Kodiak (town), between Sagoon Sinner Bay (especially) and Raftery Str. and arm of latter to north

Nov 30

Said to occur in Red Bluff Bay in late fall by Postmaster at Warm Springs Bay also at Hornum Sound (? all year round)
Kitchen anchorage, Priest at Belknap to Supt.

Oct. 9. Tomas Dobson, King Cove says crabs are in Banjo Bay adjacent to Dora Hbr. (sep. from Dora Hbr. by Bird Id. [does he mean Otter Cove])
in July - Aug. = "summer months." (drew me a sketch from memory (in notes))

Oct. 10 Off Asper of Terny got King crabs in Shelbott St. Traded there with Helen.

King crabs, records of (2)

Chief of Sandelegg (Kinger) believes crabs frequent rocky bottom. Has seen them taken on rocky bot. east of Sandale Id in July while halibut fishing (? with Nelson's brother)

Nov. 12. (Fide Henton) King crabs are found Head of Headman's Bay - Alutka 8 fms. Raspberry Strait, Eagle Abr. Uyak Geese Id. etc.

Nov. 30 above. Priest at Belkofsky told Trafton of King crabs in Kitchen Anchorage, but Nelson said it was of no consequence, but it was ^{Same priest that put him on to Canoe Bay in}

Thed Porter at Petersburg says ^{first place} at Killough Id. Glacier Bay Id. etc. and Shum's Bay (Saw two crabs from Shum's Bay with males, brought in night of Sunday Dec. 1 for 60 fms. over ground for 20 ft to be of much use crab gives me. Ohmer promised to keep record of crabs brought in, for me. Write him about it

King crabs: (3)

Oct. 17 May a number in Seward & Cold
Bays in great numbers in right
season. (now Oct. 17 shaggy
1 for head)

Nov. 12 Man named Vincent on
Woody Island near Kodiak is said
to have canned King crabs. { side
Herring
Smelt.

King crabs - Bering Sea

Oct. 18

Drafting's good haul

June 2 - 1940; 23 miles N.W. of
Cape Semarin, above Port Moller.

(June 4, hauls 15 miles N.W. Port
Moller 10,000 lbs. flounder, starfish
and lots of crabs; lots of medium
sized crabs)

Oct. 18

June 6, 1st tow 25-30 fms. between
Black Hills and Nelson Sugarco, lots
and lots of crabs. ("couple of tons of crabs")
600 crabs at least half as many in
haul before both hauls 1 hr. 5 mins.

Oct. 28 In Bering Sea it would appear
that crab fishing is better at end
of June than before; will be getting
there (according to present plans) before ber
time. (Too early to justify canner)
(better late year after year at all)

King crab observations:

Nov. 4. { (Ralph Brown) got three soft crabs a month ago, [in Sept?]} Cans several cases of King crabs for own + friends use, at Olga Bay.
Come up on beach 2 + 3 deep in January, believes they ^{may be} making them
Says three weeks ago got nice lot of crabs in traps.

Oct 31 { Crabs are in Olga Bay all summer less in winter. Not in Alitka in summer but here in winter (Earle Brown)
Spoke of 8 foot [? footed crabs]
Best crab fishing after Christmas

Oct. 29 Crabs better in Bering Sea at
(X) end of June than earlier, expected will tend to arrive in B.S. just before best season. [Too early to justify summer, better late year after year at all.]

Nov. 12. Man named Vincent on Woody Island near Kodiak is said to have canned King crabs. {Fide Henton
or Herring
Sumerlin
Sumerlin

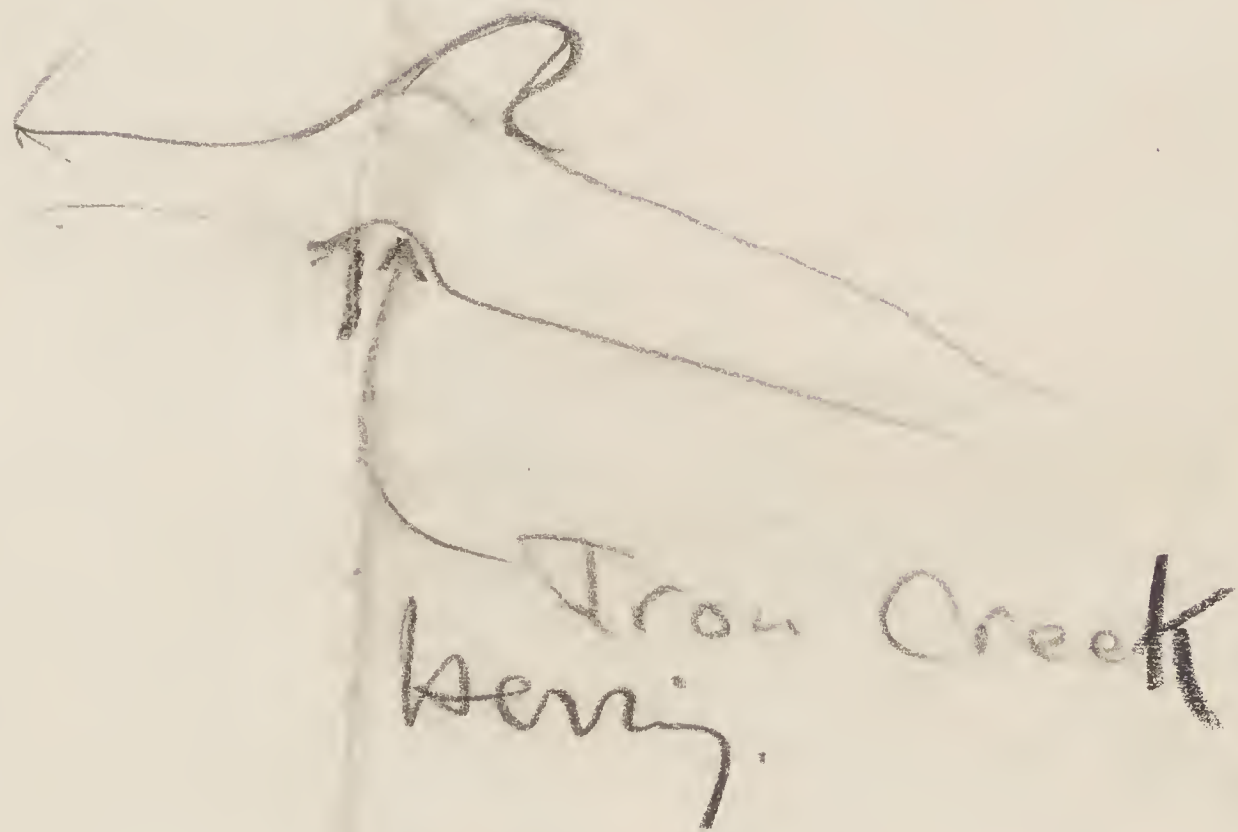
King crabs have been reported from

Thomas Bay (Ohmer, Porter)
Hoonan Sound (Postmaster at Warm Springs)
Red Bluff Bay " "
Icy Strait (Ohmer, Porter)
Willoughby Id. " "
Glacier Bay " "
Yakutat (Harrington, Amer. Bur. Ethnology)
Cook Inlet (McMillin, Wallace)
Prince William Sound (Simpler)
Skelikof St.

Kodiak:

Eagle Harbor (Stalker)
Seal Bay ? (via Trafton ?)
Whale Pass (Stalker)
Iron Creek, bet. Whale Pass and town of Kodiak (Stalker)
Woody Island. (Man named Vincent said to have canned
king crabs here. Sumerlin.)
Terror Bay (Stalker, Henton)
Nelson Lagoon (Stalker)
Raspberry St. (Stalker, Henton)
Karluk (Henton)
Uyak Bay (Henton)
Geese Ids. St. (Henton)
Alitak
Olga, and Moser Bay
Deadman's Bay (Henton)
Pavlof Bay (Nelson, Slaughter)
Cance Bay, off Pavlof
Kitchen Anchorage, off Belkofski Bay (Hotovitski)
Cold Bay
Lenard Hbr., off Cold Bay
Banjo Bay, adjacent to Dora Hbr. (Dotson)
Bay of Waterfalls, Kanaga (or Tanaga) Id., Western
Aleutians (V. Scheffer)
Bering Sea, off Black Hills (Trafton)
Herendeen Bay, Port Moller (Nelson, Slaughter)

Zachar Bay Dungeness Side Barnaby



hence fine passage down
~~Seattle~~ Best regards

Schmitt

King crabs have been reported from

Thomas Bay (Okmer) - Porter

Adonan Sound (Portmanteau at
Red Bluff Bay warm springs)

Willoughby Id.,
Gay Strait? (Okmer) - Porter

Glacier Bay

Dakutah (Harrington)

Cook Inlet (McMillin, Wallace)

Prince William Sound (Simpson)

Shelikof St.

Seal Bay? ^{via} (Snafin?)

Kodiak: { Eagle Abr. (Stalker) <

Whale Pass (Stalker)

Chon Creek bet. Whale Pass and
Town of Kodiak (Stalker)

Woody Island (man named
Vincent said to have caught
King crabs here, & Sumner)

Nelson Lagoon (Stalker)

Terror Bay } (Stalker
Henton)

Karluk (Henton)

Raspberry St. } (Henton)

Uyak Bay } (Henton)

Geese Ids. St. }

Alitak

Olga, sd more Bay

Headman's Bay (Henton)

Parlof Bay (Helsen, Slaughter)
Canoe Bay, off Parlof (Hotoyitski)
Kitchen Anchorage, off Belkofski Bay
Cold Bay
Senard Abr., off Cold Bay (Dotson)
Banjo Bay, adjacent to Ilora Abr.
Bay of Waterfalls, Kanaga (or Tanaga)
Id., western Aleutians (V. Sheffer)
Bering Sea, off Black Hills (Crofton)
Herendeen Bay, Putnoller (Helsen, Slaughter)

Schw. 11 (1)

YEARLY LIST OF JAPANESE FLOATING CRAB CANNERIES
OPERATING IN ALASKAN WATERS

Year	Ship	Period of time	Localities
1930	Taihoku Maru	June - August	Port Moller
	Japanese Trawler	August	"
	Supply Ship		"
	Hakuyo Maru ^	June	"
	Kokusai Maru	August (may be above reported trawler)	"
	Hakuho Maru	June	Aleutian Islands
1931	Nagato Maru	Spring? June-August	Off Unimak and Amak Island in connection Aleutians with Good-Will flight
	Kokusai Maru		
1932	Nagato Maru	U.S.C.G. May-Sept (H.G. Hamlet)	{ Bristol Bay (off Amak Island)
	Supply Ship		
	Seiten Maru ^		
	auxileries, Kasuga Maru and Ise Maru		
1933	Taihoku Maru	May, June, Aug.?	Port Moller
	Shoshe Maru	May- June	Amak Island & Cape Seniavin
	Kasada Maru	June-July-Aug. (Radio)	{ Port Moller (Nelsons Lagoon)
	Shinano Maru	August	St. Paul Island
	Aki Maru	July	Bristol Bay
	Kokusai Maru	July	Bristol Bay
1934	Toten Maru (Nagato Maru)	May-July	May 15-June 11 Isanotski Str.-below Port Heiden
	Kitami Maru	May- June	July St. Paul Island (Port Moller) off Kudobin Islands
	Adzuchi Maru	" "	" " "
	Kasada Maru	" "	" " "
	Hakuyo Maru	June	Port Moller
	Taihoku Maru	May-June	" "
1935	Taihoku Maru	May-June	Black Hill-Nelson Lagoon
	Ryokai Maru	May	Bering Sea
	Hakuyo Maru	Summer	Bering Sea-Bristol Bay
	Hakuho Maru	June-July	Aleutians & Pribilof

YEARLY LIST OF JAPANESE FLOATING CRAB CANNERIES
OPERATING IN ALASKAN WATERS

Year	Ship	Period of time	Localities
1936	Toten Maru	June	Port Moller-Pribilof
			100 miles S.E.
	Chichubu Maru?crabs	June	{ Pribilof Islands
	Taihoku Maru	June-July	{ Baird Bank (Black hill)
			{ North of Pribilof
	Ryokai Maru	June	{ Komandorsky Islands
1937	Tenyo Maru	July	{ Bristol Bay-studying
			{ salmon routes
	Hakuyo Maru		{ Annual cruise to
			{ Bering Sea
	Taihoku Maru	June-July	Off Black Hill
			" Kodiakof Island
1938	Toten Maru	June-July	Port Moller
	Taiyo Maru	July	Nashagak-off Black Hill
	Hakuyo Maru	Summer	{ Annual cruise-Bering
			{ Sea-St.Paul Island
			{ July 8
	Kahoku Maru	June	
1938	Toten Maru	May-June	Bristol Bay Area
	July- Sept	No alien vessels reported.	
1939	Toten Maru	May	Bristol Bay
	Taisei Maru	April-May	" "
	3 unidentified ships-	St. Lawrence	^
	Island. Gambell Pt.		
	4 Jap fishing boats	Sept. 4	Westward St. Lawrence Island

LIST OF JAPANESE SHIPS REPORTED TO HAVE FISHED KING CRABS
IN ALASKAN WATERS

TOTEN MARU formerly Nagato Maru of Fuchu. Hayashi Kane Shoten
Nagato Maru Gross tonnage 3823, length 356', width 45.2', depth 18.7' Nippon Suisan K.K.

Date	Locality	Chart No.	Gear	Reported by whom	Additional notes
<i>as Nagato Maru</i>					
June 28, 1931	10 miles below Cape Mordvinof	7		Bering Sea Patrol- U.S.C.G.	Fishing Spring to August
June 28, 1931	5 miles off Uminak Island Lat. 54°50' N, 164°45' W.			U.S.C.G. Also Capt. Hendersen Steamer Starr	April 17, 1931 reported sailing by R.S. Miller, Div. of Far Eastern Affairs
August 1, 1931	6 miles off Amak Island, 30 fathom	8	No. of small launches and mother ship	U.S.C.G.	
" 4, 1931	4-6 miles " " "	10	Net 3 miles long	Chirikof, Alaska Packers	
June 18, 1932	10½ miles north of Amak Isl. 42 fathoms	10	9-30' boats	U.S.C.G.	Fished May-Sept-See additional reports from Montgomery and Itasca- No. 1 & 2
May 8, 1932	13 miles N.W. Amak Isl.	9	Tenders	U.S.B.F. Crane	
June 23, 1932	20 miles N.E. Black Hill	11		U.S.C.G. Montgomery	
<i>as Toten Maru</i> TOTEN MARU					
May 15, 1934	10 miles off Isanotski Str. Lat 55°14' N Long. 162°22' W	28	8 tenders, 3 loaded with crab	U.S.C.G. Tahoe	See additional Coast Guard Report (No. 3)
May 23, 1934	Same region, Lat. 55°N. Long. 163°32'W	29	8 tenders hauling nets	U.S.C.G.	Many crabs taken
June 11, 1934	Lat. 55°42'N Long. 162°40'W	30		U.S.C.G.	
July 22, 1934	Lat. 57°01'N Long. 169°40'W 21 miles E. of St Paul Isl.	31		U.S.C.G.	See additional Coast Guard Coast Guard Report (No. 4) ANCHORED
June 10, 1936	Lat 56°35'N. Long. 160°45'W. Port Moller	39	3 accessory motor boats 45-80 tons		Numerous crab net buoys
June 23, 1936	Lat 57°35'N. Long. 169°55'W.		Japanese freighter Sekino Maru, all gear aboard	U.S.C.G. Cyane	Maybesupply ship to Toten Maru

(5)

Date	Locality	Chart No.	Gear	Reported by whom	Additional notes
June 7, 1937	Lat. 56°14'N. Long. 161°16'W. Lat. 56°35'N. Long. 161°34'W.	47	8 launches-crab ^{pot} planter 90' vessel	U.S.C.G. Cyane	
July 9, 1937	Lat. 55°56'N. Long. 161°55'W.	49	8 launches, one 90' 11 crab pot planters	U.S.C.G. Samuel D. Ingham	
May 13, 1938	Lat. 56°28'N. Long. 161°06'W.	60	3-50' trawlers-10 launches about 30'-Numerous crab net markers-Area covered 240 sq. miles. Last marker 8 miles	U.S.C.G.	
May 16, 1938	Lat. 56°13' N. Long. 160°55'W.	61		U.S.C.G. Alert	Off Cape Kutuzof.
June 12, 1938	9 miles west of Garfield's Bay 55 55'N. Long. 162 04'W	57	3 large and 9 small launches	U.S.C.G. Alert	Nets previously seen near beach now moved further west. 6 miles offshore.
June 7, 1938	Lat. 56°02'N. Long. 161°44'W. 9 miles offshore	56	3 diesel tenders and 10 gasoline powered crab boats.	U.S.C.G. Alert	Nearest net 3½ miles offshore.
June 24, 1938	Lat. 56°29' N. Long. 160°56'W. 20 miles off Kutuzok	58		U.S.C.G.	{All nets within ^{sight} site of cannery. Toten Maru departed.
June 29, 1938		59		U.S.C.G.	
May 7, 1939	Operation between Lat. 55°57'N and 160°30'W and and 168°long. Reported anchored in 56°22'N Lat. 161°21' W. Long.	60	3 self-navigating boats also 10 small craft, carried on board	Japanese Ambassador	U.S.C.G. reported ship in 56°22' W. Lat. 161°21' W. Long., Bristol Bay within the zone designated by the Japanese Government.

Report No. 2

Excerpt from Report of Itasca, Sept. 16, 1932(601-611) from Coast Guard
Commandant to Commissioner of Fisheries. O.P.-611-601.

Nagato Maru sighted anchored N.E. of Amak Island cruised in vicinity sampans. Reports 8 sampans 30'-40'. Crew about 10 men, hawl nets; two larger sampans are constantly setting out the nets. Nets approx. 250 fathoms long, about 10' wide suspended by a hauling line buoyed at the top by green glass balls 3" in diameter. Net weighed to bottom with stone or cement weights. A capstan device from the engine in the fishing sampan brings in the nets. Fishermen start at 3:00 A.M. 30 nets per day. No bait used. Necessary often to cut net to free crabs. \$100,000 estimated by Captain invested in nets. Nets cost \$2.50 are repaired on board by a repair force. Jellyfish coming in contact with the nets rotted the line. 1st part of May- June 23, 11,000 cases.

Three fishing grounds used by the Nagato Maru. 1st, 10 or 12 miles west of Amak Island. Middle ground, 35 miles N.E. of Amak Island and third about 12-15 miles north of Port Moller. Nets not more than three miles from shore.

No incentive 25-30 fath. provide the best fishing. The Nagato Maru fishes the first ground deemed best, for about 4 days, then middle ground for one day, then moves to the Port Moller grounds for about 2 days, then back to middle ground for one day and back to Amak Island grounds, completing the cycle.

Best fishing is obtained immediately after a period of rough weather, the action of the sea appearing to stir the crabs to activity.

An inspection of the actual process packing fresh crab meat was observed aboard the Nagato Maru. Cans subjected to two steam baths at high temperatures. 1 under pressure.

Nagato Maru crew approx. 400 engaged in fishing for 6 months out of the year.

H. G. Hamlet

TOTEN MARU

June 12, 1938 55°55' N, 162°04' W. 9 miles west of Garfields Bay.
3 large and 9 small launches near Mother ship. Nets previously seen
near beach. Now moved further west. Nets 6 miles offshore. 1 Japanese
35' launch, 2 large salmon in work bench. Tele U.S.C.G. Alert, June
14, 1938.

June 7, 1938. 56°02' N 161°44' W. 9 miles off shore vicinity Nelson
Lagoon. 3 diesel tenders, 10 gasoline powered crab boats. Nearest crab
nets 3½ miles offshore. Contacted Capt. Shields of Sophie Christensen
American Cod fisherman who intimated news concerning shipment of rifles
were released for publicity purposes only to further campaign against
alien fishermen. No actual shipment of rifles will be made. U.S.C.G.
June 7, Alert. Capt. J. F. Shields letter of June¹⁹ telling of Jap
fishing activities

TOTEN MARU 56°29' 160° 56' 20 miles off Kutuzof, June 24, 1938.
All Crab Nets within sight of her. U.S.C.G.
June 29, TOTEN MARU departed. U.S.C.G., June 29, 1938.

May 7, 1939, 56°22', 161°21' W. Bristol Bay.

Japanese Ambassador notified the State Department that the Toten Maru
arrived at the fishing ground in the Bering Sea with 3 self-navigating boats
also ten small craft carried on board. Operations would terminate the
middle of May. Fishing would be exclusively for crabs. Principal place
of operation would be ~~that~~ the open sea between 55°57' N. and 160°30' and
168° long. Above position within this area.

Assistant Secretary Patterson

From C. E. Jackson
Acting Commissioner.

KOKUSAI MARU: 259 Gross tonnage, 117.8' Length, 23' beam, 12.7' draws. International Fishing Co., Tokyo.
Kokusai Kosen Gyogyo K.K.

Date	Locality	Chart No.	Gear	Reported by:	Additional notes.
Sept. 12, 1930	Port Moller	6	4 trawls		had 300 lbs. crab.
Aug. 12, 1933	8 mi. off N.E. Pt. St. Paul Island.			U.S.C.G.	Crew of 25.
Aug. 13, 1933	10 mi. off N.E. Pt. St. Paul Island.	27	Trawler	U.S.C.G.	Detained at Dutch Harbor. A few crabs on board. Survey ship.
					Reached Attu 5/2/31. Schroeder, Coast Guard.
				U.S.C.G. Chelan	Tender to Shinano Maru. Chelan 2 reports, 1933.

AKI MARU:

July 31, 1933 60 mi. S.W. Cape Constantine
Bristol Bay. 26

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HAKUHO MARU: Scouting ship. Japanese dept. Agriculture & Forestry. 129.9' Length, 24.7' Beam, 13.7' depth.

Date	Locality	Chart No.	Gear	Reported by:	Additional notes
June 1933	Aleutian Islands				Study migration route of fur seals.
July 10-20, 1935	Pribilof Islands				Studying fur seal.
May 29, 1938	Atka			U.S.C.G. Spencer	
June-July	Aleutians			Fred Schroeder	
June 29, 1930	Attu.				

Habuko.

SHINANO MARU: 6,155 gross ton. 5,395 net tons.

Kinka Yusan K. K.

Date	Locality	Chart No.	Gear	Reported by:	Additional notes.
Aug. 13, 1933	57°19' N. Lat. 169°48' W. Long. 10 mi. off N.E. Pt. St. Paul Island.	25	1 small tender laying nets, another hauling nets which yielded many crabs.	C.G.C. Alert	
Aug. 12, 1933	St. Paul Island, bearing 258° true - 20 miles. 35-40 fathoms		Mixed crew. 9 crab boats, one tender. Kokusai Maru. Nets in sections, approx. 50' long, 15' deep. 5 fish nets, total length 2 miles.	Chelan, from report of J. A. Alger.	Nets in all cases were laid with the current.
RYOKAI MARU: 4665 Gross Tonnage. 380' long. 49' beam, draws 26.4' : Nippon Suisan K.K.					
May 6, 1935	57°5' N. Lat. 169°52' W. Long.	37			
June 1936	Komandorsky Islands. Underway.			Capt. Hakuyo Maru to officer of Cyane, Kiska Harbor, June 13.	
			Used primarily in reduction of fish oil and meal. Accompanied by 3 accessory trawlers 398 tons each, 8 sea- bottom seine motor boats, 88 tons each. 3 accessory motor boats 44-80 tons.	Alaska fishery & Fur Indust. W. T. Bower. P. 46.	

SHOHEI MARU: 7256 Gross tonnage, Length 437', Width 58', Depth 35'. Shimatankian K.K. 1933.

Date	Locality	Chart No.	Gear	Reported by:	Additional notes.
May 17, 1933	5 mi. off Isanotski Str. 56°44' N. Lat., 163°20' W. Long.	15	2 boats. 15 buoys	U.S.C.G. Alert.	8 buoys 5 miles off Amak Island.
May 23, 1933	55°38' No. Lat., 162°46' W. Long. 7 miles N.E. of Kudiakof Island.	16	7 tenders setting traps.	U.S.C.G. Alert	
June 15, '33	12 miles off Port Moller.	17		" " "	
June 29, 1933	56°57' N. Lat., 159°50' W. Long. 22 mi. off Unangashik.	18	5 small motor tenders working crab nets in vicinity.	" " "	
July 31, 1933	off Port Heiden, Bristol Bay.	19		" " Chelan	See note 1.

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KASADO MARU: 400.5' Long, Beam 50.4', draws 19.0' Nippon Yusen K. K.

Date	Locality	Chart No.	Gear	Reported by:	Additional notes.
June 14, 1933	56°0' N. Lat., 161°56' W. Long. 158 mi. off Lagoon Point	20		U.S.C.G.	
June 25, 1933	27 mi. off Port Moller	21		U.S.C.G.	
June 28, 1933	56°10' N. Lat. 161°20' W. Long. 5 mi. off Kudobin Island	22		U.S.C.G.	
June 30, 1933	55°44' N. Lat. 162°5' W. Long. 12 mi. off Black Hill.	23	3 steam trawlers	U.S.C.G.	
July 3, 1933	55°59' N. Lat. 162° W. Long. 7 mi. N.E. of Black Hill	24	3 " "		
May 25, 1934	56°20' N. Lat. 161°45' W. Long. 25 mi. off Kudobin Island.	52	2 diesel trawlers were operating in vicinity. Kitami and Azuchi, using beam trawls.	U.S.C.G.	Ship anchored.
June 11, 1934	22 mi. off Kudobin Island.	33	3 ships together.	U.S.C.G.	
June 22, 1934	56°18' N. Lat. 161°20' W. Long.	34	4 steam trawler type.	U.S.C.G.	

KAHOKU MARU: Gross tonnage 3,311, Length 336.6', width 48.5', depth 24'. Dairen Kirsen K. K.
(?May have been ~~Taihoku~~ Maru.)

Taihoku

Date	Locality	Chart No.	Gear	Reported by:	Additional notes
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June 9, 1937	55°58' N. Lat., 162°09' W. Long.		11 trawlers	U.S.C.G.	
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SHUNKOTSU MARU: 160 gross ton.?

July 29, 1932 Sailed from Kamchatka.

Survey operations of
Nogato Maru, Government
Patrol boat.

TENYO MARU: of Shomonoseki. 658 gross tonnage. Length 175.5', width 30.5', depth 16.4'. Hayashikane Shoten K.K.

July 20, 1936 57°55' N. Lat. 158°15' W. Long.
Bristol Bay.

69 One 75' crab trawler. U.S.C.G.
Alert.

Anchored.

TAIHOKU MARU: 7,834 net tons. 8,252 gross. 483.6' Length. 57' width. 32.7' depth. U.S.C.G. reported owned Nippon Kosein Kaisha Lloyds 1939-40. Shinko Suisan.

Date	Locality	Chart No.	Gear	Reported by:	Additional notes.
June 30, 1930	56°18' N. Lat. 161°32' W. Long. Port Moller. 17 mi. Nelson's Lagoon. 37 fathoms.	1		U.S.C.G. Chelan	Crew 300
July 4, 1930	56°20' N. Lat. 161°17' W. Long. 17 miles off Port Moller.	2	Using nets. 6 tenders	" "	} Moved from position of June 30 to one of July 4 over this period of time.
July 28, 1930	" " " "	3		" "	
August 14, '30	56°20' N. Lat. 161°07' W. Long. 15 miles offshore	4	1 tender, 7 launches.	" "	
May 17, 1933	56°09' N. Lat. 161°21' W. Long. 5 mi. off Kudobin Island	12	Numerous tenders	U.S.C.G. Alert.	May 23, 53°56' N. Lat. 162°09' W. Long. 12 mi. off Black Hill
June 14, 1933	5 mi. West Cape Seniavin	13			Probably one mistaken locality.
" " "	18 mi. off Lagoon Point	14			} August, present in Bering Sea, reported by Chelan, picked up her radio.
May 25, 1934	56°14' N. Lat. 161° W. Long. 20-25 mi. off Port Moller.	66			
June 11, 1934	" " " "	67			
June 12, 1934	56°25' N. Lat. 160°51' W. Long.	68		U.S.C.G. Haida.	
May 6-10, '35	56°42' N. Lat. 162°40' W. Long.	36	11 beam trawlers dragging for ground fish. 25 fathoms.	U.S.C.G. Calypso.	See note I, Ewing report, 1935.
June 9, 1935	55°55' N. Lat. Long 162°36' W.	40	4 sea bottom seine motor boats 88 tons. 3 trawlers, 398 tons 2 trawlers, 388 tons.	As reported by Capt. of Hakuyo Maru to Officer of Cyane, Kiska Harbor.	

(This belongs to July 7 next sheet)

TAIHOKU MARU: Continued.

Date	Locality	Chart No.	Gear	Reported by:	Additional notes.
July 3, 1936	58°14' N. Lat. 168°20' 30" W. Long.	41	Fleet Toki Maru, Extract from Hokkai Maru, Yuki U.S.C.G. patrol Maru, Tai-hoko Maru, boat Teshio Maru, HeKurei "Daphne." Maru. 24 trawlers.		Taihoku Maru appeared to be operating as a fish reduction plant. 4 small trawlers having no English names are engaged in crabbing. Canned crab meat, beside the reduction of fish.
July 7, 1936	Bristol Bay.				
July 23, 1936	58°13' N. Lat. 168°26' W. Long.	42	Six large trawlers, U.S.C.G. 2-masted motor ships about 160' long. 4 crab trawlers, 2-masted, oil, screws, 75' long.		
June 3, 1937	55°59' N. Lat. 162°09' W. Lat.	45	11 trawlers 75' - 150' U.S.C.G. Cyane		Anchored.
July 5, 1937	Approx. 56°02' N. Lat. 162°35' W. Long.	46	12 trawlers working U.S.C.G. in conjunction with canning vessel. Extract.		
			Within a radius of 5 miles, were ten smaller vessels. 2 approx. 165' in length, 550 tons dis- placement. Hokkai Maru and Toka Maru. 8 smaller vessels--names in Japanese letters. No. 1-8 approx. 90' in length, 200 ton dis- placement. Worked in pairs dragging huge nets.		

(3)

TAISEI MARU

3601 gross tonnage

Length 341'

beam 46.7'

depth 26'

Naigai Kaisen K.K.

Date	Locality	Chart No.	Gear	Reported by whom	Additional notes
May 11, 1931	Cape Sarichef, Alaska reports ship in area. Entire month of April 24,000 ton vessels, left Black Hill, other north of Amak Island			U.S.C.G. Duane	Reports beliefs based on intercepts that above named ship has been in area entire month of April.
<hr/>					
TAIYO MARU	Gross tonnage 1445	length 560'	width 65.3'	depth 31.21'	Nippon Yusen K.K.
July 7, 1937	10 miles west off Ugashik	52	Working nets 2 miles long	U.S.C.G. Ingham	Believed to be govern- ment owned.
July 1, 1937	Lat. 57 46'N Long. 158 16' W. Nushagak	50			
July 4, 1937	Lat. near 56°00N. Long. 162°30'W.	51		U.S.C.G. Ingham	The Taiyo Maru was employed in Bering Sea waters for the first time in 1937 apparently continuing the studies of the routes and avail- ability of salmon in offshore waters, begun by Tenyo Maru in 1936.

HAKUYO MARU Japanese Government Training Ship. Imperial Fisheries Institute
Lloyds 225' length 36' beam depth 20' length 230' water line beam 35' draft 12-15' twin screw 700 horse, 12 knots.

Date	Locality	Chart No.	Gear	Reported by whom	Additional Notes
June 20, 1930 Aug. 4, 1933	Lat. 56°08'N. Long. 161°32' W. ↗ <u>Port Moller</u> East Landing St Paul	5		U.S.C.G.	Study fur seal
June 11, 1934 June 8, 1935 Summer 1936	56°15'N. Lat. 161°05' W. Long. 5 miles off mouth of Ugashik River. Annual cruise	35		U.S.C.G. U.S.C.G. Alert	{ Photographic copy of schedule of vessel
June 7, 1937 June 9, 1937 July 8, 1937	55°55'N Lat. 161°55' W. Long. 55°56'N Lat. 161°55'W. Long 57°45'N. Lat. 158°16'N Long.	53 54 7 55	Motor boat and hand gill net	U.S.C.G. Cyane " " " " ?	{ July 31 from Cyane report June 13, 1936 Fishing salmon
July 3-4, 1937	4 miles NW of fishing vessels approx. 57°34'N. Lat. 158°15'W Long.	56		" "	
				Copy 601, confiden- tial, June 13, 1936 Patrol boat Cyane	Crew 29 men, 23 cadets or students of the Tyko Fishing Institute 16 officers and pro- fessors. 1 room for every 4 students. Lab. for marine life, com- bined study hall and mess hall.

AREAS WHERE KING CRABS HAVE BEEN TAKEN IN ALASKA
AS REPORTED BY MR. NELSON OF SEATTLE

The numbers correspond to the numbered localities on the charts.

Bering Sea Chart:

1. Mr. Nelson picked up a Japanese net here; it contained about 80 crabs.
2. This was the principal area worked by Mr. Nelson in the Bering Sea.
3. The Japanese have been fishing on Davidson Bank. In the Pacific they have not extended their operations further east than this bank. On the eastern side of Sanak Island, many small crabs were taken. The Japanese did not enter this area because it was being fished by American halibut boats.
4. Mr. Nelson fished Pavlof Bay for crabs, he reports it as a good locality.
5. The Japanese fished this area for crabs. Mr. Nelson reports a great bank of razor clams along the shore.

Cape St. Elias - Shumagin Islands Chart.

1. Mr. Nelson reports that he found good crab fishing here in Alitak Bay. He suggests that the offshore bank should bring good results. He reports that two species of crab were obtained at Alitak; both species were sometimes obtained in the same haul.
- 2.
3. In halibut Cove, Cook Inlet, Mr. Nelson found crabs being obtained in pots. This operation was being carried on in September. The pots were round. Salmon and clams were used for bait. Mr. Nelson found that the ordinary square crab trap would not work for catching King Crabs.

4. In this area crabs have been taken by halibut boats.

General Comments:

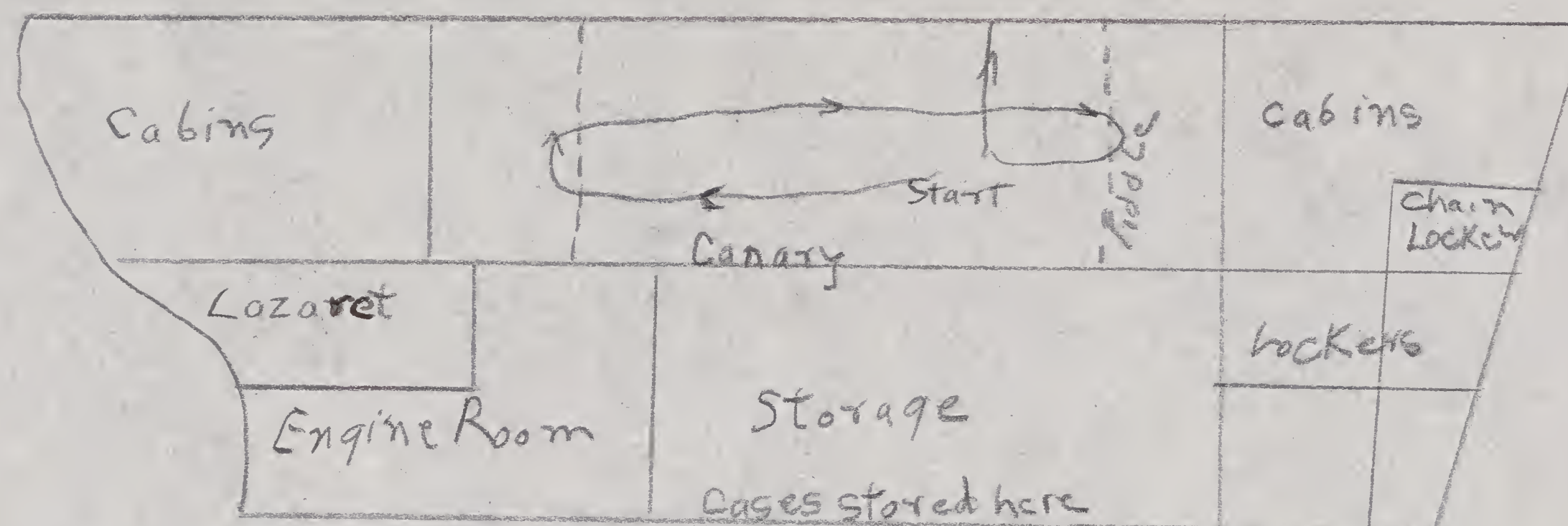
Mr. Nelson believes that the tides in Cook Inlet are too strong for operating gill nets. He believes trawls might work.

Mr. Nelson generally fished for King Crabs in about 35 fathoms, although he has taken them in as shallow water as 8 fathoms. The type of bottom from which crabs were taken was variable, extending from sand to mud. A Blue mud bottom perhaps yielded the best results. He found the best fishing in the bays, although the Japanese net which he pulled in the Bering Sea at locality one, seemed to indicate that open sea fishing was also profitable.

W. Williams
July 3, 1940.

Largest haul made was at Alitak 340 crabs, in one haul.
75 fms net.
Suggests best area in vicinity of Davidson Bank.

PLAN OF THE CANNING SHIP TONDELEYO



Formerly carried a crew of 35?
 Mr. Nelson recommends
 a crew of 25.